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182  
Chattin, J. E.  
1939-1940

1. Oregon, Washington June - Aug. 1939
2. Imperial Co., Calif. Jan. 1940
3. Alameda and Napa Cos., Calif. Feb. 1940
4. Oregon, Washington July - Aug. 1940







Chattin, J. E.

Oregon, Washington

June 28 - Aug. 1, 1939







Oregon - Washington - California  
1939 June 28 - Aug. 1

Specimen register  
Nos. 17 - 294







Hatten, J.E.

1939

## Catalogue

11 mi NE Weed ft. Siskiyou Co., Calif.

June 28, 1939

✓ 17 ♀ (no embs.) *Dipodomys heermanni* 315-191-43-17; 69.5 gm.

Crooked R. 3400 ft., at mouth of Bear Cr., Crook Co., Oregon

June 29, 1939

✓ 18 ♀ (no embs.) *Myotis* 80-40-7-13-tr 5; 3.2 gm.

✓ 19 ♀ (no embs.) *Dipodomys ordii* 247-135-38-13; 53 gm.

11 mi. NE Weed ft. Siskiyou Co., Calif.

June 28, 1939

✓ 20 ♀ (no embs.) *Dipodomys heermanni* 312-194-42-16; 73 gm.

Crooked R. 3400 ft., at mouth of Bear Cr., Crook Co., Oregon

June 29, 1939

21 *Hyla*

June 30, 1939

✓ 22 ♂ *Perognathus parvus* 174-90-24-8.5; 22.7 gm. coll. J. Hooper

✓ 23 ♂ *Peromyscus truei* 166-76-21-23; 19.1 gm.

✓ 24 ♂ *Dipodomys ordii* (coll. F. Hooper) 250-142-40-13; 48.2 gm.

✓ 25 ♀ (no embs.) *Perognathus parvus* 171-93-22-8; 15.4 gm.

✓ 26 ♂ *Perognathus parvus* 179-96-22-9; 18.8 gm.

Crooked R. 3400 ft., 9½ mi. SE Prineville, Crook Co., Oregon

June 30, 1939

✓ 27 ♂ *Marmota flaviventris* 544-125-76-23; wt 2593 gm.

Crooked R. 3400 ft., 6 mi. SE Prineville Crook Co., Oregon

Found June 30, 1939

skull only - 28 ♂ *Canis latrans*

skull only 29 ♂ *Canis latrans*

skull only 30 ♂ *Canis latrans*







Chattin, J.E.  
1939

## Catalogue

Crooked R. 2750ft., 4 mi. SSE Opal City, Jefferson Co., Oregon

June 30, 1939

### 31 *Sceloporus*

Columbia R. 300ft., at mouth of Deschutes R. Wasco Co., Oregon

July 1, 1939

- ✓ 32. ♂ *Peromyscus maniculatus* 160-73-20-18; 16.5 gm.
- ✓ 33 ♂ *Peromyscus maniculatus* 148-73-19-16; 14 gm.
- ✓ 34 ♂ *Perognathus parvus* 144-78-21-7; 11.2 gm.
- ✓ 35 ♂ *Perognathus parvus* 159-85-20-7; 12.5 gm.

Columbia R. 300ft., at mouth of Deschutes R. Sherman Co., Oregon.

July 2, 1939

- ✓ 36. ♀ (no embs) *Thomomys talpoides* 188-64-24-5; 78.5 gm.
- ✓ 37 ♀ (no embs) *Thomomys talpoides* 185-51-24-5; 93 gm.

July 2, 1939

- ✓ 38 ♂ *Reithrodontomys megalotis* 139-72-16-14; 10 gm
- ✓ 39 ♂ " " 136-69-16-14; 9.2 gm.
- ✓ 40 ♂ " " 134-68-16-13; 9.5 gm.
- ✓ 41 ♀ (no embs) *Mus musculus* 152-70-15-12; 14.8 gm.
- ✓ 42 ♀ (no embs) *Thomomys talpoides* 192-58-24-5; 80.5 gm

July 3, 1939

- ✓ 43 ♂ *Thomomys talpoides* 185-55-26-5; 77 gm
- ✓ 44 ♂ *Thomomys talpoides* 169-48-24-5; 68.1 gm
- ✓ 45 ♂ *Reithrodontomys megalotis* 144-71-16-14; 11.1 gm.
- ✓ 46 ♂ " " 133-66-15-14; 8.4 gm
- ✓ 47 ♂ " " 134-68-16-13; 8.5 gm
- ✓ 48 ♀ (no embs) *Thomomys talpoides* 184-57-24-5; 67.5 gm
- 49 *Pituophis catenifer*







Allen, J. E.

1939

## Catalogue

Columbia R. 300ft., at mouth of John Day R. Gilliam Co., Oregon

July 3, 1939

- ✓ 50 ♂ *Thomomys talpoides* 198-54-25-5; 95.5 gm.

July 4, 1939

- ✓ 51 <sup>♀(no)</sup>~~emb~~ *Thomomys talpoides* 189-55-24-5; 80.5 gm.

- ✓ 52 ♂ *Perognathus parvus* 164-92-24-8; 14 gm.

53. *Pituophis catenifer*

Columbia R. 300ft., 2mi. WSW Rufus Sherman Co., Oregon

July 4, 1939

- ✓ 54 ♂ *Thomomys talpoides* 193-54-25-5; 101.5 gm.

- ✓ 55 <sup>♀(no)</sup>~~emb~~ " " 152-60-25-5; 71 gm.

- cranium only ✓ 56 *Erithizon epixanthum* (pick-up)

Columbia R. 300ft., at mouth of Deschutes R. Wasco Co., Oregon

July 5, 1939

- ✓ 57 ♂ *Eptesicus fuscus* 117-45-10-19-tr. 9; 12.5 gm.

Brooks Mdw. 4300ft., 9mi. ENE Mt. Hood, Hood River Co., Oregon

July 6, 1939

- ✓ 58 <sup>♀(no)</sup>~~emb~~ *Sorex vagrans* 90-39-12-7; 3.6 gm.

- ✓ 59 <sup>♀(no)</sup>~~emb~~ " " 91-39-11-7; 3.7 gm.

- ✓ 60 <sup>♀(no)</sup>~~emb~~ " " 94-39-11-7; 4.2 gm.

- ✓ 61 ♂ *Zapus trinotatus* 239-147-32-16; 23 gm.

- ✓ 62 ♂ *Eutamias amoenus* 176-64-31-17; 48.1 gm.

- ✓ 63 <sup>♀(no)</sup>~~emb~~ *Thomomys monticola* 206-65-26-7; 87 gm.

- ✓ 64 ♂ " " 163-43-24-6; 49.6 gm.

- ✓ 65 ♂ " " 170-47-25-6; 47 gm.

- ✓ 66 <sup>♀(no)</sup>~~emb~~ *Citellus lateralis* 270-90-37-20; 181 gm.



The first part of the paper discusses the importance of the study of the history of the English language. It is shown that the English language has a long and varied history, and that it has been influenced by many different languages and cultures. The second part of the paper discusses the importance of the study of the history of the English language. It is shown that the English language has a long and varied history, and that it has been influenced by many different languages and cultures. The third part of the paper discusses the importance of the study of the history of the English language. It is shown that the English language has a long and varied history, and that it has been influenced by many different languages and cultures. The fourth part of the paper discusses the importance of the study of the history of the English language. It is shown that the English language has a long and varied history, and that it has been influenced by many different languages and cultures. The fifth part of the paper discusses the importance of the study of the history of the English language. It is shown that the English language has a long and varied history, and that it has been influenced by many different languages and cultures. The sixth part of the paper discusses the importance of the study of the history of the English language. It is shown that the English language has a long and varied history, and that it has been influenced by many different languages and cultures. The seventh part of the paper discusses the importance of the study of the history of the English language. It is shown that the English language has a long and varied history, and that it has been influenced by many different languages and cultures. The eighth part of the paper discusses the importance of the study of the history of the English language. It is shown that the English language has a long and varied history, and that it has been influenced by many different languages and cultures. The ninth part of the paper discusses the importance of the study of the history of the English language. It is shown that the English language has a long and varied history, and that it has been influenced by many different languages and cultures. The tenth part of the paper discusses the importance of the study of the history of the English language. It is shown that the English language has a long and varied history, and that it has been influenced by many different languages and cultures.



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1939

## Catalogue

Brooks Meadow, 4300ft., 9mi. ENE Mt. Hood, Hood River Co., Oregon

July 7, 1939

- ✓ 67 ♀ (no emb.) *Sorex vagrans* 102-39-11-7; 5.3 gm  
✓ 68 ♀ (no emb.) *Neurotrichus* 110-39-15-; 10.5 gm.  
✓ 69. ♀ (no emb.) *Phenacomys intermedius* 126-31-16-11; 21.3 gm.  
✓ 70. ♂ *Zapus* 237-149-30-15; 20.5 gm.  
✓ 71. ♂ *Thomomys monticola* 205-56-26-7; 10.5 gm.  
✓ 72. ♂ " " 202-60-28-7; 94.4 gm.  
✓ 73 ♀ (no emb.) *Lepus washingtonii* 423-25-120-78; 1401 gm.  
✓ 74 ♂ *Sorex vagrans* 99-38-11-7; 6 gm.  
✓ 75 ♀ (no emb.) *Spermomys orereus* 145-30-18-; 48.8 gm  
✓ 76. ~~♂~~ ♂ *Microtus* 140-34-16-11; 29 gm  
✓ 77 ♂ *Eutamias amoenus* 203-90-30-16; 47.2 gm  
✓ 78 ♂ " townsendii 245-105-35-21; 84 gm  
✓ 79 ♀ (no emb.) *Zapus* 236-139-31-16; 32 gm  
✓ 80 ♂ *Zapus* 231-138-29-16; 24 gm.  
skull only) 81 *Microtus* or *Phenacomys*.

2 mi. E. Hood River 100ft. Hood River Co., Oregon

July 9, 1939

82. *Thomomys*

Ice Caves 2800 ft., 5mi. WSW Guler, in Skamania Co., Wash.

July 10, 1939

- ✓ 83 ♀ (no emb.) *Zapus* 237-141-32-16-; 23 gm.  
✓ 84 ♀ (no emb.) *Eutamias townsendii* 259-112-35-21; 96 gm.  
✓ 85 ♀ (no emb.) *Sciurus douglasii* 328-129-47-25; 218 gm.

Twin Buttes R.S., 3900ft., 3mi. WSW Steamboat Mtn., Skamania Co., Wash.

July 10, 1939

- ✓ 86 ♂ *Clethrionomys gapperi* 135-40-16-13; 19.5 gm.







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1939

## Catalogue

Twin Buttes, 4300ft., 2 1/2 mi. SW Steamboat Mtn., Skamania Co., Wash.

July 11, 1939

- ✓ 87. ♂ *Zapus trinotatus* 215-130-30-16; 22.2 gm
- ✓ 88. ♂ *Citellus lateralis* 308-100-45-25; 281 gm
- ✓ 89. ♀ (no emb) " " 285-90-42-22; 254 gm

Twin Buttes R.S., 3900ft., 3 mi. WSW Steamboat Mtn., Skamania Co., Wash

July 12, 1939

- ✓ 90. ♂ *Zapus trinotatus* 256-152-34-16; 33 gm

Twin Buttes, 4300ft., 2 1/2 mi. SW Steamboat Mtn., Skamania Co., Wash.

July 12, 1939

- ✓ 91. ♀ *Thomomys talpoides* (no emb) 215-60-28-8; 111.2 gm.

Twin Buttes R.S., 3900ft., 3 mi WSW Steamboat Mtn., Skamania Co., Wash.

July 10, 1939

- 92. *Hyla regilla*
- 93. *Rana*
- 94. "
- 95. "
- 96. "
- 97. "
- 98. "
- 99. "
- 100. *Bufo boreas*
- 101. " "
- 102. " "
- 103. " "
- 104. " "
- 105. " "
- 106. " "







Chattin J.E.

Catalogue

1939

Twin Buttes R.S., 3900ft., 3 mi. WSW Steamboat Mtn., Skamania Co., Wash.

July 10, 1939

107	Bufo	boreas
108	"	"
109	"	"
110	"	"
111	"	"
112	"	"
113	"	"
114	"	"
115	"	"
116	"	"
117	"	"
118	"	"
119	"	"
120	"	"
121	"	"
122	"	"
123	"	"
124	"	"
125	"	"
126	"	"
127	"	"
128	"	"
129	"	"
130	"	"
131	"	"
132	"	"







Catalogue

2 mi. E Hood River, 100 ft., Hood River Co., Oregon

July 14, 1939

133 *Thamnopis*

134 "

135 "

136 "

137 "

138 "

139 "

140 "

141 "

142 "

143 "

144 "

145 "

146 "

147 "

1 mi. SE Sawtooth Mtn., 4200 ft., Skamania Co., Washington

July 13, 1939

✓ 148 ♂ *Ochotona princeps* 190-16-31-24; 186.4 gm.

Twin Buttes R.S. 3900 ft., 3 mi. WSW Steamboat Mtn., Skamania Co., Wash.

July 12, 1939

+ skel. *Erethizon*

✓ 149 ♂ *Hystrix Epixanthum* 880-285-115-42; 14,784 gm.

Mary hill, 200 ft., Klickitat Co., Wash.

July 14, 1939

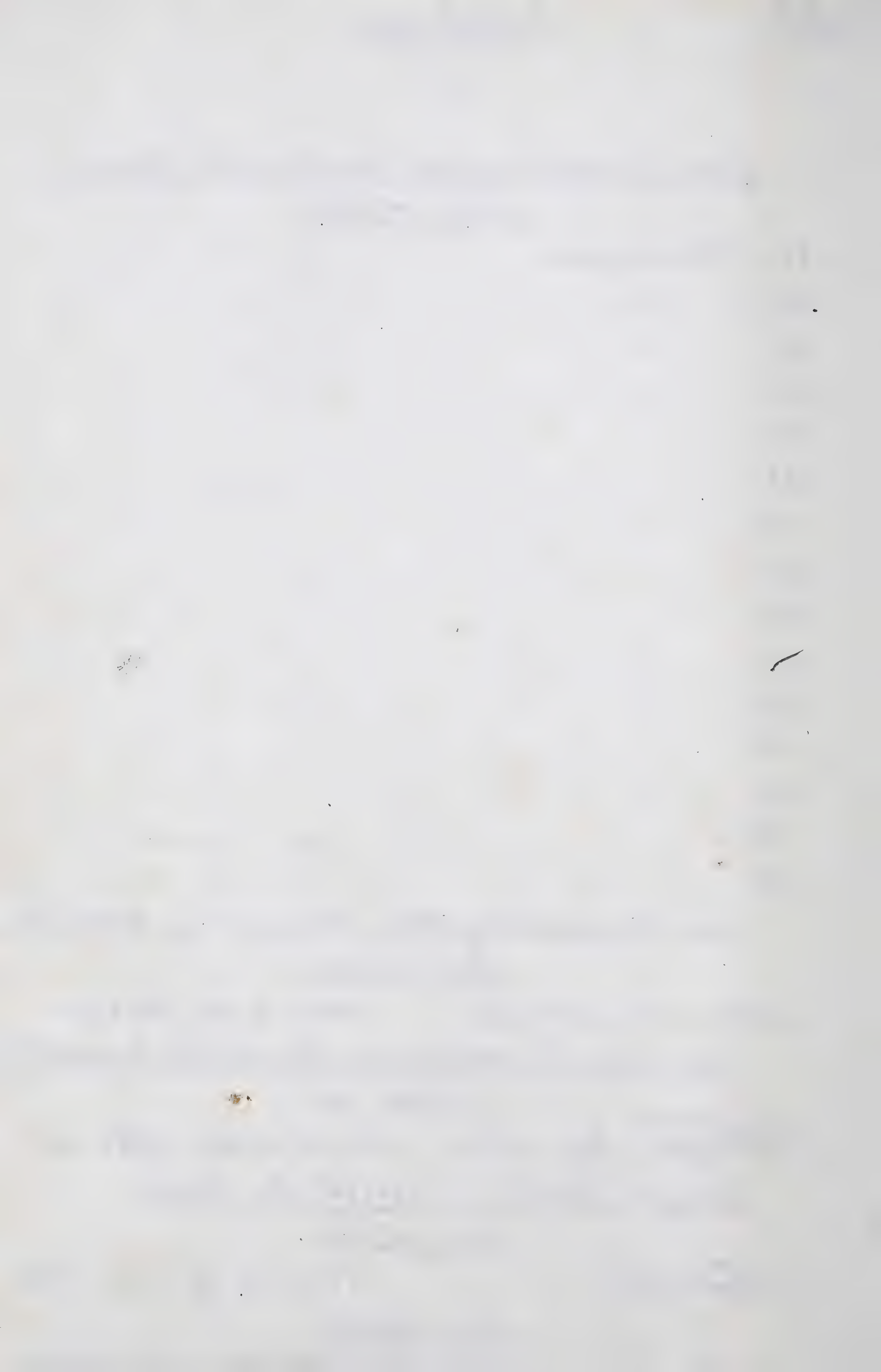
✓ 150. <sup>9/10</sup> ~~(emb)~~ *Myotis*

79-38-6-16-10.7; 5 gm

July 15, 1939

✓ 151 ♀ *Perognathus parvus* (emb) 150-83-19-7; 11.4 gm







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1939

# Catalogue

Maryhill, 200 ft., Klickitat Co., Wash.

July 16, 1939

- ✓ 152. ♀ (4 x 7mm emb) *Perognathus parvus* 165-86-20-8; 17 gm.  
✓ 153 ♀ (no emb) " " 157-83-20-8; 12 gm.  
✓ 154 ♀ (no emb) " " 147-81-20-8; 11 gm.  
✓ 155 ♀ (no emb) *Reithrodontomys megalotis* 145-70-15-14; 11 gm.  
✓ 156 ♀ (no emb) " " 86+ -24+ -15-13; 8.5 gm.  
✓ 157 ♀ (no emb) *Peromyscus maniculatus* 144-66-18-16; 16.5 gm.  
✓ 158 ♂ " " 160-77-19-17; 16.5 gm.  
✓ 159 ♀ (no emb) *Neotoma cinerea* 355-153-39-30; 212 gm.  
✓ 160 ♀ (no emb) " " 371-164-40-31; 214.5 gm.

200 ft.,  
4 mi. NE Roosevelt, Klickitat Co., Wash.

July 17, 1939

- ✓ 161 ♂ *Reithrodontomys megalotis* 140-75-16-13; 10.5 gm.  
✓ 162 ♂ *Perognathus parvus* 173-93-22-8; 18.5 gm.  
✓ 163 ♂ " " 164-89-22-8; 17.3 gm.  
✓ 164 ♂ " " 175-89-22-8; 22.7 gm.  
✓ 165 ♀ (no emb) " " 170-88-21-8; 18 gm.  
✓ 166 ♂ " " 168-83-22-8; 17.5 gm.

Paterson, 250 ft., Benton Co., Wash.

July 18, 1939

- ✓ 167 ♀ (emb) - *Reithrodontomys megalotis* 135-66-17-14; 10 gm.  
✓ 168 ♀ (no emb) " " 141-67-16-14; 10.5 gm.  
✓ 169 ♀ (2 x 6mm emb) " " 137-70-16-13; 11.6 gm.  
✓ 170 ♂ *Onychomys leucogaster* 130-33-19-18; 25.5 gm.  
✓ 171 ♂ *Peromyscus maniculatus* 153-71-18-16; 18.5 gm.  
✓ 172 ♂ *Mus musculus* 165-83-18-14; 17.8 gm.







Letting J. E.  
1939

Catalogue

Paterson, 250 ft., Benton Co., Wash.

July 18, 1939

- ✓ 173 ♂ *Perognathus parvus* 170-85-23-8; 21 gm.  
✓ 174 ♂ " " 185-100-23-8; 20.4 gm.  
✓ 175 ♂ " " 177-91-22-8; 23.4 gm.

Maryhill, 200 ft., Klickitat Co., Wash.

July 16, 1939

- ✓ 176 <sup>Skull only</sup> *Mephitis mephitis* - (pick-up.)

Paterson, 250 ft., Benton Co., Wash.

July 17, 1939

177 ~~*Scaphiopus*~~ <sup>*Bufo*</sup>

178 "

179 "

180 "

181 "

182 "

183 "

184 "

185 "

186 "

187 "

188 "

189 "

190 "

191 "

192 "

193 "

194 "







attini J.E.

1939

## Catalogue

Paterson, 250 ft., Benton Co., Wash.

July 17, 1939

195 ~~Scaphiopus~~ <sup>Bufo</sup>

196 "

197 "

198 "

199 "

Blalock Island, 250 ft., 2 mi. SW Paterson, Benton Co., Wash.

July 19, 1939

- ✓ 200 ♂ *Peromyscus maniculatus* 153-60-19-17; 15.4 gm.  
✓ 201 ♂ *Perognathus parvus* 185-88-25-9; 24.4 gm  
✓ 202 ♂ " " 172-80-24-9; 26 gm  
✓ 203 ♂ " " 171-85-24-9; 21 gm  
✓ 204 ♂ " " 181-85-24-9; 23 gm.  
✓ 205 ♂ " " 180-92-24-9; 20.4 gm  
✓ 206 ? *Dipodomys ordii* (+1?) -138-39-14; (wt?)  
✓ 207 ♂ *Perognathus parvus* 172-83-23-9; 17.2 gm  
✓ 208 ♂ " " 165-82-23-9; 15.2 gm

2 1/2 mi. SW Irrigon, 300 ft., Morrow Co., Oregon

July 20, 1939

- ✓ 209 ♀ (no emb) *Perognathus parvus* 170-90-21-8; 15.7 gm  
✓ 210 ♀ (no emb) " " 162-88-21-8; 15.5 gm.  
✓ 211 ♀ (no emb) " " 171-90-22-8; 16 gm.  
✓ 212 ♀ (no emb) *Dipodomys ordii* 227-128-37-12; 37.5 gm  
✓ 213 ♀ (no emb) *Thomomys talpoides* 172-54-24-5; 54.7 gm

Blalock Island, 250 ft., 2 mi. SW Paterson Benton Co., Wash

July 19, 1939

214 *Sceloporus*.







Hattin J.E.  
1939

Catalogue

Blacklock Island, 250ft., 2 mi. SW Paterson, Benton Co. Wash.

July 19, 1939

215 *Sceloporus*.

216 "

217 "

218 "

219 "

220 "

221 "

222 "

223 "

5 mi. ENE Pasco, 500ft., Franklin Co., Wash.

July 22, 1939

✓ 224 ♂ *Perognathus parvus* 178-95-24-8; 22.8 gm.

✓ 225 ♀ (no emb) " " 178-94-24-8; 19 gm.

✓ 226 ♂ " " 180-95-23-8; 20 gm.

227 *Pituophis catenifer*

228 " "

8 mi. ENE Pasco, 650ft., Franklin Co., Wash.

July 22, 1939

✓ 229 ♂ *Perognathus parvus* 194-99-23-8; 23.3 gm.

✓ 230 ♀ (no emb) " " 169-88-21-7; 15.5 gm.

✓ 231 ♀ (no emb) " " 155+-74+-23-8; 19 gm.

232 *Sceloporus*

233 "

234 "

235 "

236 "







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1939

Catalogue

8 mi. ENE Pasco, 650ft., Franklin Co., Wash.

July 22, 1939

237 *Sceloporus*

238 "

239 "

240 "

241 "

242 *Crotalus*

3 1/2 mi. W Kennewick, 550ft., Benton Co., Wash.

July 23, 1939

✓ 243 ♂ *Mus musculus* 169-80-18--; 19.5 gm.

2 mi. NW Burbank, 500ft., Walla Walla Co., Wash.

244 *Coluber constrictor*

245 *Sceloporus*

246 "

247 "

248 "

249 "

250 "

251 "

252 "

253 "

254 "

255 "

256 "

257 "

258 "

Skull only

259 ♀ *Lepus californicus* (no tals) 730-87-116-119; 1654 gm.







Atkins, J. E.  
1939

## Catalogue

1 mi. NBurbank, 350ft., Walla Walla Co., Wash.

July 23, 1939

- ✓ 260 ♀<sup>(no)</sup><sub>(emb)</sub> *Marmota flaviventris* 502-137-72-29; 2140 gm.

2 mi. SSE Burbank, 350ft., Walla Walla Co., Wash.

July 24, 1939

- ✓ 261 ♂ *Reithrodontomys megalotis* 135-73-16-13; 7.7 gm  
✓ 262 ♂ *Onychomys leucogaster* 125-33-17-17; 22.7 gm.  
✓ 263 ♂ " " 124-33-17-16; 21 gm.  
✓ 264 ♂ *Dipodomys ordii* 244-132-40-14; 50 gm  
✓ 265 ♂ " " 245-134-40-14; 56 gm.  
✓ 266 ♂ " " 258-142-41-14; 60.5 gm  
✓ 267 ♂ " " 241-130-40-14; 51.5 gm  
✓ 268 ♀<sup>(no)</sup><sub>(emb)</sub> " " 243-135-39-14; 49.7 gm.  
269 *Sceloporus*

7 mi. E and 5 mi. S Dixie, 4300ft., Walla Walla Co., Wash.

July 25, 1939

- ✓ 270 *Myotis* 97-44-9-13-tail; 7.7 gm.

July 26, 1939

- ✓ 271 ♀<sup>(no)</sup><sub>(emb)</sub> *Thomomys talpoides* 175-59-24-5; 69.6 gm.  
✓ 272 ♂ " " 189-59-25-6; 91 gm.  
✓ 273 ♀<sup>(no)</sup><sub>(emb)</sub> " " 176-58-24-5; 61 gm.  
✓ 274 ♀ *Citellus columbianus* (no emb) 330-93-55-22; 419 gm.

Stacya White Spring, 5150 ft., Columbia Co., Wash.

July 26, 1939

- ✓ 275 ♀<sup>(no)</sup><sub>(emb)</sub> *Lasiurus noctivagus* 102-44-7-15-tail; 10.7 gm

July 27, 1939

- ✓ 276 ♂ *Lepus triotatus* 232-130-31-16; 31.5 gm.  
✓ 277 ♀ *Sciurus hudsonicus* <sup>(no)</sup><sub>(emb)</sub> 345-135-44-27; 296 gm.







Chatter, J.E.  
1939

## Catalogue

Stayawhile Spring, 5150 ft., Columbia Co., Wash.

July 28, 1939

- ✓ 278 ♂ *Spinus pinus* wt. 12.2 gm
- ✓ 279 imm. *Sitta canadensis* wt. 11 gm.
- ✓ 280 ♂ *Dryobates villosus* 71.5 gm.

1 mi. W Stayawhile Spring, 5300 ft., Columbia Co., Wash.

July 29, 1939

- ✓ 281 *Colaptes cafer* - imm. 124 gm.
- ✓ 282 ♀ *Oporornis* 9.7 gm.
- ✓ 283 imm. Townsend warbler 9 gm
- ✓ 284 ♀? *Calliope hummingbird* (?) 2.3 gm
- ✓ 285 imm. Orange crowned warbler 9.7 gm.
- ✓ 286 ? ~~Mountain~~ Mountain Chickadee 10.8 gm

N.E. edge Alkali Lake, 4200 ft., Lake Co., Oregon.

July 31, 1939

- ✓ 287 ♀ (no emb) *Dipodomys ordii* 243 - 135 - 40 - 14; 56.4 gm.
- ✓ 288 ♂ " " 256 - 145 - 41 - 13; 55 gm.
- ✓ 289 ♀ (no emb) *Perognathus parvus* 165 - 87 - 23 - 9; 18.5 gm
- ✓ 290 ♀ (no emb) *Microdipodops megalotus* 150 - 85 - 25 - 11; 14 gm.
- ✓ 291 ♀ (no emb) *Peromyscus maniculatus* 166 - 70 - 20 - 17; 25 gm.

2 mi. E Vinton, Plumas Co., 4400 ft., Calif.

Aug. 1, 1939

- ✓ 292 ♂ *Reithrodontomys megalotis* 130 - 67 - 16 - 14; 7.7 gm
- ✓ 293 ♂ *Perognathus parvus*. 168 - 87 - 22 - 9; 19 gm
- 294 *Sceloporus*







Chattin, J. E.

Oregon, Washington June 28-Aug. 1, 1939

General Account, Itinerary







Chattin  
1939

# Itinerary

June 28

11 mi. NE Weed, ft., Siskiyou Co., Calif.

Party composed of B.W. Johnson, Frank J. Hooper, Donald Haffmeister, Bill Loughurst, Lloyd Revis and John E. Chattin left the Mus. of Vert. Zool. - U of Calif. Berkeley at 9:20 A.M.

June 27. U.S. highway 40~~0~~ was followed NE to 10 mi. beyond Dixon where highway 99W was followed to Red Bluff.

From here highway 99 was followed to Weed; from Weed highway 97 was followed to the present site. This site 11 mi. NE of Weed is near the old railroad siding Delaney. The soil is loose gray sand about 6 in. deep with some fine gravel intermixed. The ground is dry to a depth of at least 1 ft. Slope is very gentle but rocky outcrops are present on either side. Many sawed stumps of *Pinus ponderosa* are present, some of which are fire-scarred. The Life-Zone is Transition as indicated by yellow pine + sagebrush (*Artemisia tridentata*). Vegetation in the clearing includes *Artemisia tridentata*, *Pinus ponderosa*, *Purshia tridentata* (antelope brush) *Arctostaphylos* (?) (manzanita) *Juniperus occidentalis* (western juniper) and a kind of bunch grass which





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1939

## Itinerary

11 mi. NE Weed, Ft., Siskiyou Co., Calif.

June 28 cont.

is pale green to yellow probably due to lack of moisture. Ribes sp? - currant also present.

Shortly after arrival 25 traps were set out in a N-S line along thru the sagebrush and thru a small grove of young yellow pine. 11 of the traps were sprung but only 1 specimen was taken - 1 adult ♀ Dipodomys heermanni. Several small brown bats (Myotis sp?) were observed after sundown June 27.

Birds observed or heard singing in the locality include

Rock Wren, Western Meadowlark, Spotted Towhee, Chipping Sparrow, Lewis Woodpecker, Poorwill. - The nest of the Poorwill was located in which there were 2 young birds. The parent bird flew up and then disappeared in the sagebrush a short distance away. The nest is a slightly hollowed depression in the fine dry sandy dust. Fragments of rotten wood from a nearby log are scattered about with which the color of the young birds blends very well. Young birds are covered with fine brownish colored down. Black pin-feathers are just





Chatterin  
1939

## Itinerary

11 mi. NE Weed Pl. Siskiyou Co., Calif.

June 28 (contd.) Beginning to show on the wings, back and head. Eyes of the young birds are closed and they are quiet and entirely motionless except for respiration movements. The birds are exposed to the direct light of the sun but would be shaded in the afternoon by a small sagebrush about 6 in. distant.

June 29

Crooked R. 3400 ft. at mouth of Bear Cr., Crook Co., Oregon

The party left site 11 mi. NE Weed at 8:00 A.M. travelling northward along U.S. highway 97. At 8:10 A.M. 16 mi. NE Weed a Mountain Bluebird flew across the road. At 8:15 A.M. in Grass-lake valley several Oregon ground squirrels were observed at the roadside. 21 mi. from Weed several Golden-mantled ground squirrels were observed running across the road. Several others were dead on the road.  $\frac{1}{4}$  mi. N of Warden Ore. a colony of Bank Swallows was observed in a bank of gray gravel West of the highway. Following on up highway 97. thru Klamath Falls, thru Bend to Redmond the party turned onto highway 27 and travelled eastward to Prineville. From here a gravelled road was followed southeastward to the present locality.





Chattin  
1939

## Itinerary

June 28  
(cont'd)

Crooked R. at Bear Cr. mouth Crook Co. Oregon

After arriving and setting up camp a line of 45 traps was set in N-S direction  $\frac{1}{4}$  mi. west of Bear Creek bridge. Trap line followed to the west side of a small gulley and then out on top of the small lava plateau SW of Bear Creek bridge. 5 traps were also set along the south side of the road EW about 25 yards from Bear Creek. 4 of the 5 traps at the roadside were effective - catching 1 Dipodomys ordii 2 Peromyscus maniculatus + 1 Perognathus parvus. 12 mice were caught in the other line; 8 Peromyscus maniculatus + 4 Perognathus parvus. Total traps set - 50 to catch 16

Results. Peromyscus maniculatus 10 (5♂ 5♀)

Perognathus parvus 5 (2♂ 3♀)

Dipodomys ordii 1♀

1 ♀ Myotis sp(?) was shot 20 yds south of Bear Creek bridge at 8:30 P.M. June 28

- The present camp is located 20 yards south of highway 27 and 70 yards west of Bear Creek bridge near the junction of Bear Creek and Crooked River. The flats in the canyon bottom are covered with fine dry sand. Vegetation includes sagebrush (Artemisia tridentata) which is the dominant plant type, Juniperus occidentalis also is fairly





Hutton J. E.  
1939

## Itinerary

June 29  
(Cont'd)

Cracked R. at mouth of Bear Cr. Crook Co. Oregon  
abundant. Bromus sp? is the common grass found growing in the sagebrush. The valley floor is fairly level with occasional dry washes extending thru it from the sidehills. The hillsides of the valley have a fairly steep slope. The soil is hard and fairly well packed. Rock outcrops of lava occur at intervals. Sagebrush and western juniper and 2 or 3 species of bunch grass form the vegetative cover. Above the sloping hillsides there is a rimrock of lava which forms a straight sided rock wall. The height of the plateau in which the valley is cut from the river bottom is approximately 800 ft. - Birds observed about the locality include - Turkey Vulture, Western Red-tailed Hawk, Sparrow Hawk, Horned Owl, Kingfisher, Cliff Swallows, Bank Swallows(?)

At 8:20 P.M. June 29 40 yds from the mouth of Bear Creek a tree toad (Hyla regilla) was caught and preserved.

June 30

75 mouse traps were set out at intervals of about 15 yds apart in

10

The first part of the paper is devoted to a discussion of the  
general principles of the theory of the structure of the  
crystal lattice. It is shown that the structure of the  
crystal lattice is determined by the arrangement of the  
atoms in space. The arrangement of the atoms is  
determined by the forces of attraction and repulsion  
between them. The forces of attraction are due to the  
electrostatic interaction between the positive and  
negative ions. The forces of repulsion are due to the  
Pauli exclusion principle. The balance of these forces  
determines the equilibrium distance between the  
atoms. The equilibrium distance is the distance at  
which the forces of attraction and repulsion are in  
balance. The equilibrium distance is the distance at  
which the potential energy is a minimum. The  
equilibrium distance is the distance at which the  
crystal lattice is most stable. The equilibrium  
distance is the distance at which the crystal lattice  
has the lowest energy. The equilibrium distance is  
the distance at which the crystal lattice is most  
stable. The equilibrium distance is the distance at  
which the crystal lattice has the lowest energy.



Chatter J. E.

1939

## Itinerary

June 30  
(cont'd)

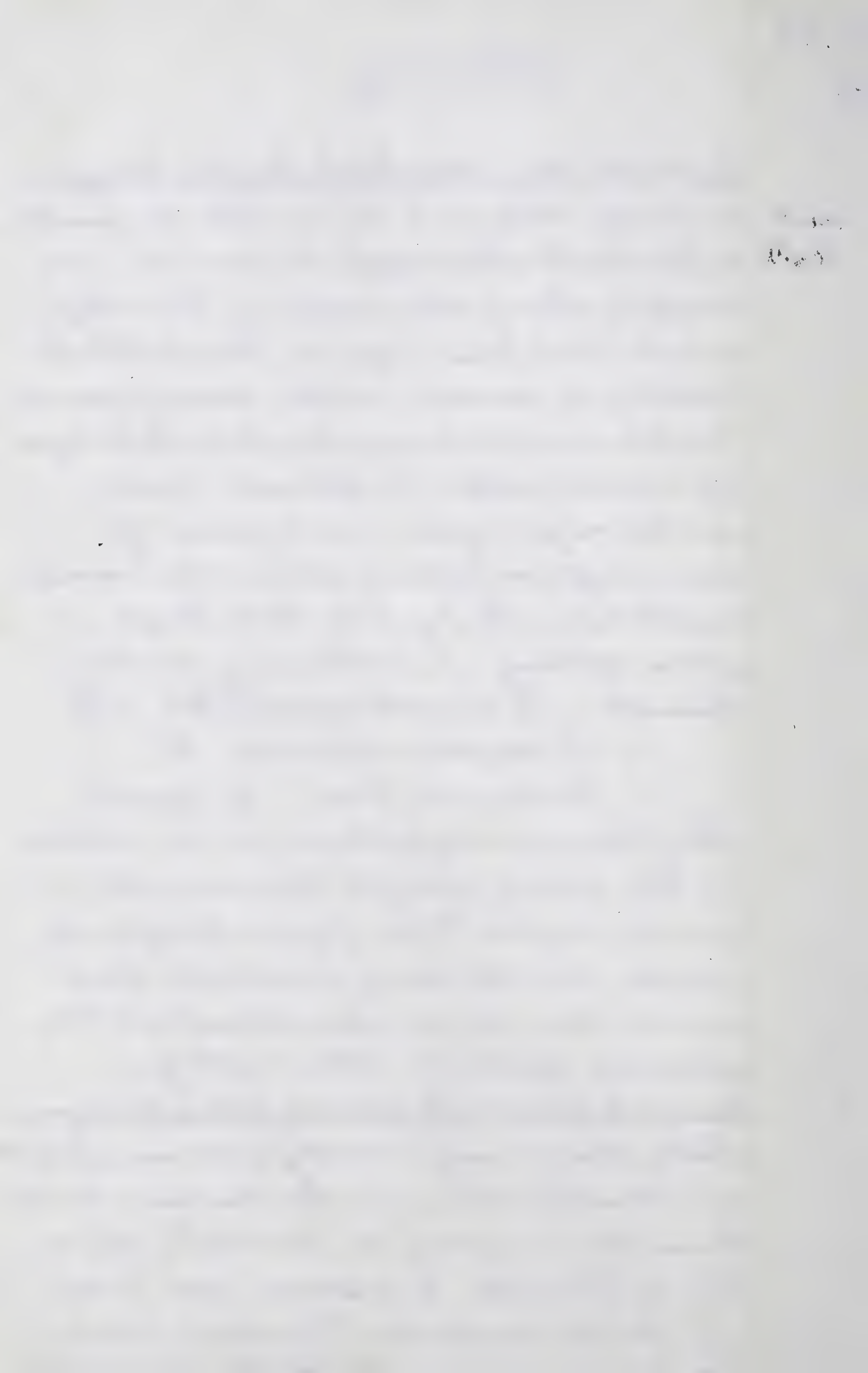
Crooked R. at mouth of Bear Cr. Crook Co. Oregon  
a large draw  $\frac{1}{2}$  mi. south of junction  
of Crooked R. & Bear Creek. Traps were set  
mainly along the edges of the dry  
wash bed and up on the hillside.  
Country is covered with many small  
rocks with considerable outcrops  
of lava rock. Sagebrush and  
western juniper and a form of  
bunch grass (sparse) form the main  
vegetation. Only 8 of the traps  
were sprung - 5 containing mice  
Results - 3 *Perognathus parvus* (2 ♀ 1 ♂)  
1 *Peromyscus maniculatus* ♂  
1 *Peromyscus truei* ♂ (juvenile)

Lloyd Tevis, setting 55 traps in the bottom  
of the valley caught 29 mice the  
same night. This figure compared  
with 5 in 75 may indicate that  
mice are more abundant in the  
lower parts of the valley.

July 1

Columbia R. 300 ft. at mouth of Deschutes R. Wasco Co. Oregon

Party broke camp shortly after noon June 30  
and travelled down the Crooked River towards  
Prineville on highway 27. At 12:50 P.M.  $9\frac{1}{2}$  mi  
S.E. of Prineville a marmot was picked  
up at the roadside. The skull was  
broken and some teeth knocked out.





Hutton, J. E.

1939

## Itinerary

Columbia R. at mouth of Deschutes R. Wasco Co. Oregon

July 1

(cont'd)

The animal apparently had been killed by a passing automobile earlier in the morning (June 30). Farther along the road 6 mi. from Prineville P.O. on highway 27 skulls of 3 coyotes were taken from the skeletons which were hanging along the fence NE of the roadside. (1:00 P.M.)

Skulls & skeletons were well dried; date of death of animals was uncertain. From Prineville highway 27 was followed to Redmond. From Redmond highway 97 was followed to Biggs at the junction of 97 and highway 30. 4 mi SSE Opal City elev. 2750 ft. at 2:10 P.M.

Jefferson Co. Oregon a fence lizard was caught in the rocks along the rim of the Crooked river canyon. - From Biggs on highway 30 the party turned West and followed down the highway to the mouth of the Deschutes River where camp was set up about 7:30 P.M. - Later 43 mouse traps were set out at 15 yd. intervals on the west side of the Deschutes river from a point 70 yds from the river bank in SW direction up the hillside. Total distance of line about  $\frac{3}{4}$  mi. . Traps were set in sandy





Chattin  
1939

Itinerary

Columbia R. at mouth of Deschutes R. Wasco Co. Oregon

July 1  
Contd

situations and in dry cheat grass(?) near sagebrush plants. Results - total of 4 specimens

2. *Peromyscus maniculatus* (both ♂)

2 *Perognathus parvus* (both ♂)

July 2

Columbia R. at mouth of Deschutes R. 300 ft. Sherman Co. Oregon

35 mouse traps set out along fence line at the edge of a pasture about 15 yds from the edge of Deschutes river. 4 gopher traps set in sandy ground thru the pasture.

Results 6 *Reithrodontomys megalotis* all ♂

3 *Thomomys talpoides* all ♀

1 *Mus musculus* ♀

2 *Melospiza melodia* also caught in mouse traps.

At 9:00 P.M. a bat (*Eptesicus fuscus*) was shot at the edge of the river. Bat was only slightly wounded and is still alive (7:20 P.M.)

July 3

Set out 48 mouse traps 15 paces apart along edge of alfalfa field and along edge of willow thicket. 3 gopher traps set out in pasture in sandy ground. Results.

4 *Reithrodontomys* all ♂

2 *Thomomys* ♂

1 ♂ *Mus*.

1 Song Sparrow.

Description of Region about mouth of Deschutes river - Soil is





thin J.E.  
1939

# Itinerary

July 3  
(cont'd)

Columbia R. 300 ft at mouth of Deschutes, Ore.

light colored sand much of which is drifted into small dunes.

Along the edges of the river there are willows and cottonwood trees, a sedge (Carex) grows along the river bank and on small islands in the river. On the West side of the river the slopes back from the river are of sandy soil

covered with sagebrush, rabbit brush and cheatgrass (Bromus?). The upper slopes show outcroppings of basalt and a few scrubby junipers. The East side of the river bank slopes less steeply at the mouth and several farms a present where hay and truck crops are grown.

The side hills are also covered with sagebrush and cheatgrass with bare rimrocks near the upper edges. Birds seen or heard near the river mouth

include; - Western Robin, Arkansas Kingbird, California Gull, Blue Heron, Lazuli Bunting, Song Sparrow, Violet Green Swallow, Cliff Swallow, Sparrow Hawk, Meadow Lark.





Latter J.E.

1939.

## Itinerary

Columbia R. at mouth of Deschutes R. Oregon

Bullock Oriole, Night Hawk, Spotted Sandpiper  
Chickadee, Crow, Raven, Flicker,  
Longtailed Chat, White Crowned Sparrow.

July 3

5:10 P.M. - caught gopher snake in  
act of swallowing a gopher which  
had been caught in gopher set. The  
snake had swallowed the gopher  
to the shoulder region but when  
disturbed it stopped feeding and  
attempted to escape by crawling  
into the gopher tunnel.

Columbia R. 300 ft. at mouth of John Day R. Gilliam  
County, Oregon - July 3, 1939

2 gopher traps set in light  
sandy loam in alfalfa field.

47 mouse traps set about 10  
yds. apart along the edge of an  
alfalfa field, along edge of a  
grape vineyard below a dry  
rye patch, and also some traps  
set on the side hill above the  
rye patch in rocky land with  
cheat grass & sagebrush.

7:15 P.M. Caught gopher in trap  
set about 1 hr. 30 min. earlier  
the same evening.

July 4 (A.M.) Trap Results.

1 ♂ Perognathus above rye patch





Hatter J.E.

1939

## Itinerary

Columbia R. 300ft - John Day R. Gilliam Co. Ore

July 4

(Cont'd)

1 ♂ *Reithrodontomys* along grape patch

1 ♂ *Peromyscus* along alfalfa patch

1 ♀ *Thomomys* in alfalfa field.

- Returning from trap line in A.M. 2 gopher traps were set in alfalfa field in sandy soil (very loose). During setting of traps L. Davis shot 2 *Citellus lateralis* along rock slides beneath canyon rim of the Columbia river.

July 4 - 6 P.M. - Columbia R. 300ft., 2 mi. WSW. Rufus, Sherman Co. Oregon.

Picked up 2 gopher traps mentioned above in which were caught 2 gophers. Walked up along talus slopes beneath canyon rim rock and picked up cranium of a porcupine (no lower jaw could be found).

July 5

Brooks Meadow 4300ft. 9mi. ENE Mt. Hood Hood River Co. Oregon

Broke camp at mouth of Beechutea river late in A.M. - Travelled along highway 30 westward to Hood River, turned south on highway 35 at Hood River and travelled up Hood River canyon. Turned off main highway and travelled up dirt road to Brooks Meadow.

1882  
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Atkin J. E.  
1939

## Itinerary

Brooks Meadows, Hood River Co., Oregon

July 5  
(cont'd)

Set out 85 Museum Special traps about 8 yds apart and 5 gopher sets. Traps were set in grass and along edges of fallen logs at the edge of the timber. - Brooks Meadows is an open clearing in the timber about  $\frac{3}{4}$  mi. in diameter. The meadow is completely covered with vegetation which includes blue grass, sedge (Carex), Camas, lupine and several wild flower species. The ground has only a slight slope and the soil is moist light loam. The forest at the edges of the meadow is composed of Douglas fir, white fir and Western Larch. Some brush is present also and consists mainly of service berry. The forest floor is well covered with many small herbaceous plants and numerous young trees. Considerable fallen timber is present but there is no evidence of any recent burning.

July 6 -

A.M. - Picked up trap line -

Results - 6 *Peromyscus* 5 ♀ 1 ♂

2 ♂ *Thomomys monticola*

3 ♀ *Sorex vagrans*





John J. E.

1939

## Itinerary

Brooks Meadow - Hood River Co. Oregon

July 6

(cont'd)

1 ♂ *Zapus*. and 1 ♂ *Eutamias amoenus*

3:15 P.M. - Shot ♀ *Citellus lateralis*  
on fallen log at edge of clearing.

July 7 -

(A.M.) - 62 mouse traps set out  
last night in same places or  
situations as previous night.

7 gopher traps set out in meadow

57 Guard Station cabin. Results -

3 ♂ *Thomomys monticola*

1 ♀ *Peromyscus maniculatus* (in male trap)

1 ♂ *Zapus*. (1 ♀ *Scapanus orereus* caught)

1 ♀ *Phenacomys intermedius*

1 ♀ *Newtrichess gibbsii*

1 ♀ *Sorex vagrans*

- 7 A.M. - Shot ♀ *Lepus washingtonii*

near roadside at edge of timber

- Rabbit was about 7 yds distant,

shot with .410 and - 5:30 P.M. - young *L. washingtonii*  
shot in brush thicket

(P.M.) reset traps in trap line

which had not been picked up.

During the day there was caught

1 ♂ *Sorex*, 1 *Microtus*, and 1 ♂ *Eutamias amoenus*

2 *Eutamias townsendii* 1 ♂ - 1 ♀

July 8 -

(A.M.) Picked up trap line (62)

Results - 1 ♂ *Microtus*(?) or *Phenacomys*(?)

2 *Zapus* 1 ♂ - 1 ♀

2 *Peromyscus* 1 ♂ 1 ♀





Catten J. E.

## Itinerary

1939

Brooks Meadow, Hood River Co., Oregon

July 8. - at 6:10 A.M. - 1 *Lepus Washingtonii* was shot under a Douglas fir in herbaceous undergrowth. Rabbit was 8 yds distant when shot with .410 auy. When first seen was only about 3 yds away, but hopped only a short distance where it stopped and was shot.

July 8

Hood River, Hood River Co., Oregon

Party broke camp at Brooks Meadow shortly after 3 P.M. <sup>(July 8)</sup> and travelled back to Hood River. At Hood River the truck was left at a garage for repairs.

July 9

- Last night bed rolls were taken from the truck and the car was taken 2 mi. E Hood River, Oregon where we spent the night. At 8:10 A.M. July 9 a garter snake was caught along the railroad right of way. Late in the afternoon, the truck not repaired as yet, the party took bed rolls in the car and travelled across the White Salmon - Hood River bridge over the Columbia River to the town of White Salmon. From here highway 8 D was taken to Guler where we had supper. From here we went to Ice Caves





Hatten, J. E.  
1939

## Itinerary

Lee Caves, ft. 5 mi. Euler, in Skamania Co., Wash.

July 9 - P.M. - Set out 55 traps in fairly open stands of yellow pine, Douglas fir, Western larch and White fir. Ground cover consists mainly of wild strawberry plants and short grass which is fairly dry. Traps were set about 8 yds. apart beside fallen logs, at the bases of large trees and in the open grassy spaces between trees.

July 10

Results of trapping -

3 *Peromyscus* 2 ♂ 1 ♀

1 *Zapus* ♀ 1 *Junco*

At 9:50 A.M. a *Sciurus douglasii* was shot about 15 ft up from the base of a large Douglas fir. The animal was approached to within about 8 yds. - At 10:10 A.M. a ♀ *Estanias townsendii* was shot as it was sitting on the roots of a fallen tree. At noon the party left for Mosquito Lake.

Twin Buttes, 4300 ft., 2 1/2 mi. SW Steamboat Mtn, Skamania Co.,

Wash. - July 10 - Arrived here at 4:20 P.M. - While making a short hike thru the surrounding territory a *Clethrionomys* was caught at the base of a large fallen log in heavy





Chatterin J. E.

1939

## Itinerary

Twin Buttes 4300 ft. Skamania Co. Wash.

July 10

(cont'd)

timber with thick undergrowth of herbaceous plants near the edge of a small stream. - Several *Aplodontia* burrows were noted in the vicinity. Going on downstream an open clearing was found which was covered with coarse grass and bordered by willows and thick brush. The soil was very wet and covered with water in many places. Here several young toads and frogs were caught. Small toads were very numerous and the spot seemed to be a good breeding place and possibly one of the centers of dispersal from which the toads noted on the higher slopes may come. 6 P.M. - returned to Tillamuck Camp Grounds and then went on up to Saddle Camp where a base of operations was set up. - Set out 60 mouse traps 10 paces apart in open grass, brush and by rotten logs and under small trees.

July 11 (7 A.M.) Caught in traps;

3 *Peromyscus* 2 ♀ 1 ♂

1 *Zapus* ♂

(7:30 A.M.) Shot ♂ *Citellus lateralis* on





Hutton J. E.

# Itinerary

1939

Twin Buttes, 4300 ft. 2½ mi. SW. Steamboat Mtn, Shoshone Co. Idaho

July 11

(cont'd)

top of a rotten stump at about 10 yds distance - 10:30 A.M. caught ♀ C. lateralis in rat trap.

The country in the vicinity of Twin Buttes has a variety of habitats.

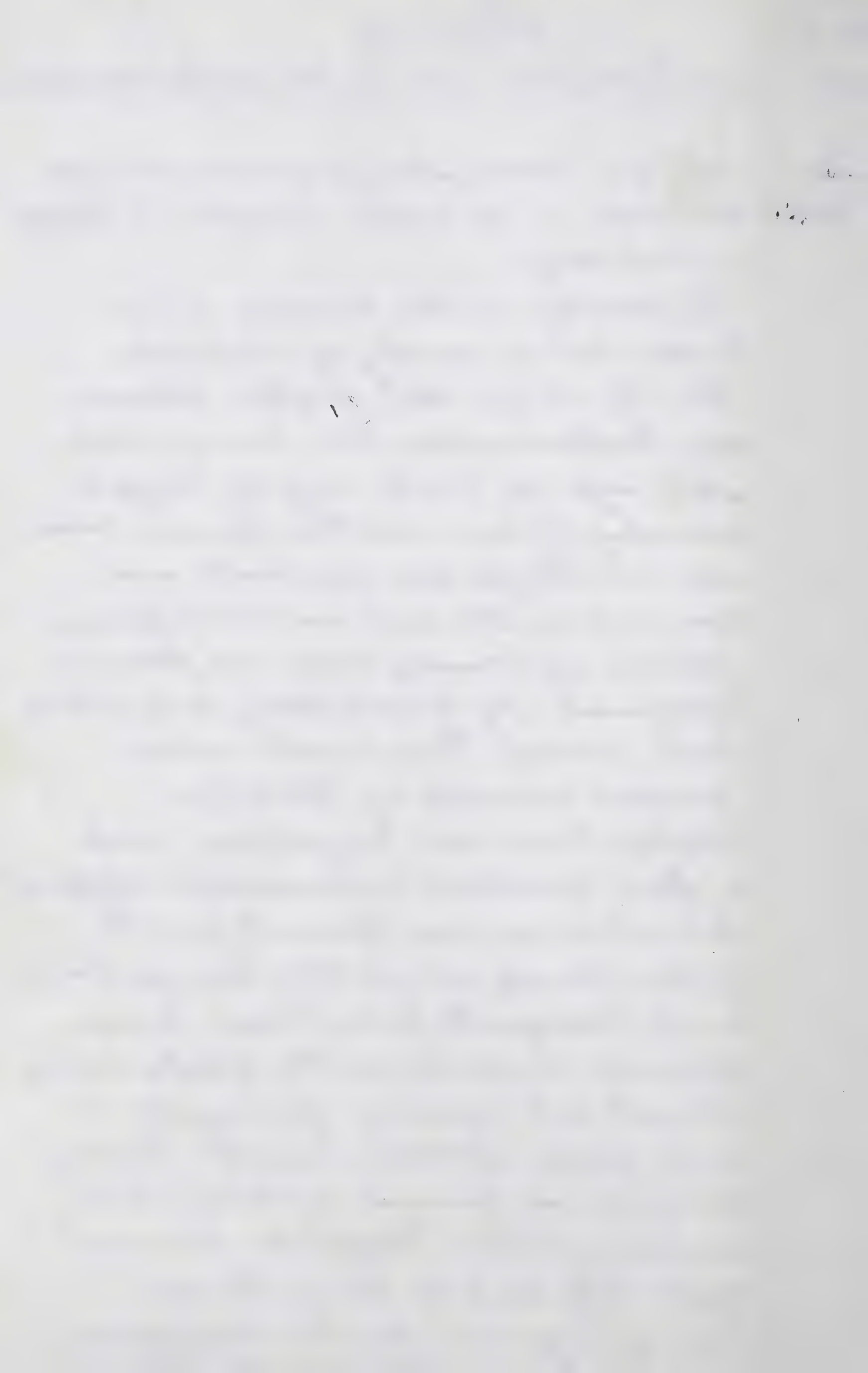
The land in the saddle between the buttes where the camp was set up is made up of light sandy loam with some rocks in it. Slopes are gradual and covered with sod in most places; patches of brushy areas are present composed of huckleberry and other low bushes. Tree cover where

present consists of White fir,

Western Larch and Sugar pine and a few scattered cottonwoods(?) or poplars(?)

Burned areas are present north of the camp about the Ranger Station and Mosquito Lake. These have become covered with fairly heavy brush and many young pines and firs. Farther north heavy timber is found which has neither been logged or burned recently and is very dense.

Fallen logs and dense herbaceous growth forms the understory





Hatter J. E.

1939

## Itinerary

Twin Buttes 4300 ft., Skamania Co., Wash.

July 11  
(cont'd)

especially near the stream which flows thru it. The ground in this region is still moist. Several meadows are also present thru the timber in the lower spots and these are very wet and of a bog-like character. 5:00 P.M. July 11 - Before going out to set traps a reptile bag containing a garter snake captured 2 mi. E Hood River Hood River Co., Oregon <sup>(July 9)</sup> was opened with intentions of preserving the specimen which had been kept alive due to truck breakdown and absence of preservative. The bag contained not only the original garter snake but 15 young snakes, which were all alive and vigorous. Two of them had partially shed skins. The snakes were returned to the reptile bag and left alive.

5:15 P.M. went down to stream 1 mi. N Twin Buttes camp in company with W<sup>m</sup> Longhurst and set 4 *Aphelocetes* traps and 25 mouse traps in 25 yd radius near the stream in heavy undergrowth and under fallen logs.





Chattin J. E.

1939

## Itinerary

Twin Buttes 4300 ft., Skamania Co. Wash.

July 12 (7:40 A.M.) Trap results

3 *Peromyscus* 2 ♀ 1 ♂

1 *Zapus*. ♂

2 *Aplodontia* traps sprung - 1 contained a claw. - Longhurst caught 1 *Sorex hendiri* + 1 *Clethrionomys* + 3 *Sorex obscurus* or *S. vagrans* (?), also some *Peromyscus* + *Zapus*.

(11 A.M.) Set out 2 gopher sets and 2 rat traps in grassy land in saddle between Twin Buttes.

(12:30 P.M.) Caught ♀ *Thomomys talpoides*

(7:30 P.M.) Went deer hunting this afternoon with Wm Longhurst. Signs fairly plentiful; - Longhurst saw large buck late in P.M. but unable to get a shot at it due to heavy timber.

At 5:45 P.M. while returning to set some traps I shot a large ♂ porcupine. The animal when first seen was sitting near the middle of a very large fallen log partly covered with branches of younger trees surrounding it. The animal was motionless and was approached to within about 10 ft. Going around to

1



Allen, J.E.

1939

## Itinerary

Twin Buttes 4300 ft., Skamania Co. Wash.

July 12

(cont'd)

one side of the animal I shot it in the right side with .410 aut. at distance of about 12-15 ft. When shot the animal jumped and moved down the log a short ways, then fell off the side and crawled under the log. After 2 or 3 minutes the animal died and was carried out to the road. - 6 P.M. - set out 8 mouse traps near edge of small stream. Returned to camp and drove down and hauled portapine to camp.

July 13

(7:30 A.M.) Picked up mouse traps & Apodontia traps and gopher traps.

Trap results:

1 Clethrionomys	} pref. D. J. Hoffmeister
1 Zapus.	
1 Thomomys.	

found Rat trap with F. C. lateralis  
(PM) - Broke camp shortly before noon and started back toward White Salmon, Wash. Along the way, 1 mi. SE Sawtooth Mtn., 4200 ft., Skamania Co. Wash.

The party stopped at a large rock slide to shoot pikas. At 12:30 P.M. I shot a pika as it came out of the rocks toward a higher group of rocks. The slides of rock are





Hatten, J. E.  
1939

## Itinerary

1 mi. SE Sawtooth Mtn. 4300 ft., Skamania Co., Wash

July 13

surrounded by forest composed of Western Larch, White fir and Sugar pine with some scrubby undergrowth. The rock slides in the region are composed of large boulders of angular shape, varying in size from widths of 5 ft. to 1 ft and smaller. The slope is fairly steep, probably around  $30^\circ$ . Some grass grows at the edges of the slides and some in the slide itself. Small piles of this were noted in the rocks and may have been used for food by the pikas. Feces were abundant but localized to fairly definite spots. Size - round and slightly larger than a BB shot.

Maryhill, 200 ft., Klickitat Co., Wash.

July 13

(9:00 P.M.) - Party left locality at Sawtooth Mtn. at 2:30 P.M. and returned to White Salmon, Wash. From here highway 830 was followed along the north side of the Columbia to Maryhill, the present locality. Arrived at 7:30 P.M. and went out and attempted to set some gopher traps but no fresh workings were found.





1939

Itinerary

July 14-

Marquill 200ft., Klickitat Co., Wash.

(A.M.) - Preserved garter snakes caught at Hood River. - Present camp site is located on the north shore of the Columbia R. near the edge of the water. The surrounding country is composed of outcrops of lava and drifted sand with willows growing at intervals along the river bank. Above the high-water level the land slopes back gradually to be met by talus slopes which have formed from the higher rim-rock along the canyon. This gradually sloping area has sandy soil and is utilized in spots for farming (alfalfa and fruit orchards esp.). Several different ledges of lava are present along the rim and form short benches which are covered with rocky soil in which Sagebrush and Cheat Grass are the dominant plants. Mustard, wild oats and scrubby bushes are present in some spots.

(P.M.) Set out 75 mouse traps along a dry wash N of Marquill. Traps were set about 15 paces apart. Vegetation





Atkins, J. E.  
1939

## Itinerary

Marion Hill, 200 ft., Klickitat Co., Wash

July 14

Composed of sagebrush, cheat grass, wild oats and dry mustard plants. Some willows and scrubby bushes were present at intervals. Soil is washed sand or gravel in between many large rounded boulders. - (8:45 P.M.) Shot *Myotis* flying at edge of willows along the river bank.

July 15

(A.M.) Picked up traps, most of which were sprung, possibly by the many large tenebrionid beetles which are present. Caught 1 ♀ *Perognathus* + 6 *Peromyscus maniculatus*, 3 ♂ 3 ♀; - Noted feces of *Neotoma cinerea* at intervals along tracks.

(P.M.) Set out 60 mouse traps at 15 places and 10 rat traps at favorable locations along the line. The same trap line was followed as of previous night.

July 16

(A.M.) Picked up traps - Results:-  
6 *Peromyscus maniculatus* 4 ♂ 2 ♀  
3 ♀ *Perognathus parvus*.  
2 ♀ *Neotoma cinerea*  
2 ♀ *Reithrodontomys megalotis*  
- Picked up skunk skull beneath large rock in sand along edge of Columbia River





Hattin, J. E.  
1939

# Itinerary

4 mi. NE Roosevelt, 200 ft., Klickitat Co., Wash.

July 16.

(P.M.) Party broke camp at Maryhill late in afternoon and travelled along dirt highway near edge of N bank of Columbia (highway 80)? to present locality. Stopped here and made a temporary camp and set out 75 traps near the river bank in sandy soil covered with rabbit brush, sagebrush, and cheat grass.

July 17

- Picked up traps - Results -  
1 ♂ *Reithrodontomys megalotis*  
20 *Perognathus parvus* 3 ♀ 17 ♂

Traps had been set following the river on a flat plain above the high water level. Reloaded truck and continued on up river after noon. Arrived at Paterason, 250 ft., Benton Co., Wash

July 17

about 4 P.M., Set up camp and set out 90 mouse traps and 4 rat traps at 15 paces distance. Traps were set along edge of a dry field containing grass, cheat grass and some sagebrush along the edges. Also set three sand dunes and sandy soil covered with sagebrush





Hatlin, J. E.  
1939

Itinerary

July 17

Pateron, 250 ft., Benton Co., Wash.

cheat grass and Russian thistle.  
Between 8:45 and 9:15 P.M. 24 Scaphiopus  
were caught in a pond along the  
edge of the river. The pond was  
shallow and surrounded by  
willows on 2 sides and the river  
and a gravel bar on the other sides.  
Coarse grass or sedge was growing  
in and along the edges of the pond.  
The toads were numerous and could  
be found sitting at the edge of the  
pond in the wet grass or in very  
shallow water. Breeding is in  
progress as amplexus was noted  
in 2 cases. Voice or sound made  
by the toads resembles neither that  
made by Hyla or Rana but is  
a high harsh note which is fairly  
prolonged. When caught and placed  
in a reptile bag the toads utter  
short croaks which resembles  
very much the notes made by  
young chickens.

July 18

Picked up traps - Results

38 Perognathus parvus 21 ♀ 17 ♂

3 ♀ Reithrodontomys megalotis

1 ♂ Mus musculus





Atkins, J. E.

1939

July 18

## Itinerary

Pateroson, 250 ft., Benton Co., Wash.

1 ♂ *Oryzomys leucogaster*

1 ♂ *Peromyscus maniculatus*.

(P.M.) Rowed boat over to Blalock Island in company with W<sup>m</sup> Longhurst. Hiked around East end of the island. Blalock Island, 250 ft., Benton Co., Wash.

The island is a large remnant of resistant lava rock in the middle of the Columbia. It is about 8 mi. in length and  $2\frac{1}{2}$  mi. in width. Only the east end on the north side of the island was covered. Lava rock and sand form the soil cover and vegetation consists of sagebrush, cheat grass, cactus (prickly pear) with willows and some poplars along the edge of the river. The flats at the waters edge support a small amount of coarse, short rush(?). Russian thistles grow near and on some of the sand dunes. 42 Mouse traps were set out 20 paces apart and then we returned to camp. Blalock Island, 250 ft., Benton Co., Wash.

(A.M.) Rowed back over to Island and picked up traps. Results -

July 19





Latter, J.E.

1939

## Itinerary

Black Island, 250 ft., Benton Co., Wash.

July 19

1 *Dipodomys ordii* (unable to determine sex)

1 ♂ *Peromyscus maniculatus*.

13 *Petrognotus parvus*. (9 ♂ 4 ♀)

10 *Scioporus* were shot before returning to camp. Several *Lepus californicus* were seen on the island and skeletons were noted on the ground. The *Dipodomys* taken was torn and the viscera and leg muscles had been stripped out by some animal, possibly an owl. 1 *Petrognotus* showed signs of having been swallowed by a snake and the trap had been carried for 3 yds from original position. Birds on the island include Kildeer, Magpie, Cormorant, Gulls, Black crowned Night Heron, Western Robin, - a dead Canada Goose was observed near the river bank. Beaver working was observed in the willows near the edge of the river.

July 20

2½ mi. SW Irrigon 3000 ft., Morrow Co., Oregon

L. Tevis, H. Hoffmeister, D.S. Johnson and I left camp at Paterson at 4:30 P.M. <sup>July 19</sup> and ferried across the Columbia river and drove to the town of Irrigon.

2 gopher traps were set in a hay field in sandy soil at Irrigon and then the party drove to present locality. Set out 63 mouse traps 20 paces





att. J. E.

1939

## Itinerary

July 19  
(cont'd)

2½ mi. SW Irrigon, 300 ft., Morrow Co., Oregon

apart in sandy soil. Vegetation cover of cheat grass, sagebrush Purshia and cactus. - Results -

1 ♂ Dipodomys ordii

18 Perognathus parvus (7 ♂ 11 ♀)

2 Lepus californicus were shot about 7:20 P.M. July 19 along the edge of the road between Irrigon + camp site.

Returning to Irrigon at 6:20 A.M. July 20 1½ mi SW Irrigon a Sylvalagus nottali was shot near the edge of an alfalfa field along the border of uncultivated brush land.

At Irrigon, 300 ft., Morrow Co., Oregon the gopher traps were picked up and 1 ♀ Thomomys talpoides was caught.

July 20. - 1 mi. N Burbank 350 ft., Walla Walla Co., Wash.

(P.M.) party broke camp at Paterson and travelled to Pasco crossing the Columbia and Snake rivers and setting up camp a short distance up-river from the Snake river bridge near the mouth of the river. Set out 27 traps at edge of alfalfa field under piled driftwood.

July 21 (A.M.) No results from traps

(P.M.) Went out with W<sup>m</sup> Longhurst to north side of Snake river and set





Hatten, J.E.  
1939

## Itinerary

1 mi. N Burbank, 350 ft., Walla Walla Co., Wash.

July 21

out 40 traps at locality designated as  
8 mi. ENE Pasco, 650 ft., Franklin Co., Wash.

Traps were set 15 paces apart along  
the edge of a long sand dune. Soil  
very sandy + dry. Vegetation consisting  
of sagebrush + cheat grass principally.

50 more mouse traps were set at  
5 mi. ENE Pasco, 500 ft., Franklin Co., Wash.

in sagebrush and cheat grass. Soil  
slightly harder and not so sandy.

July 22

(A.M.) - Picked up traps - Results from  
5 mi. ENE Pasco, 500 ft., Franklin Co., Wash.

21 *Perognathus parvus* (15 ♀ 6 ♂)

2 *Pituophis catenifer*

at 8 mi. ENE Pasco, 650 ft., Franklin Co., Wash.

in 40 traps caught

26 *Perognathus parvus* (17 ♂ 9 ♀)

at 7:45 A.M. saw Crotalus which was  
shot by Longhurst. Snake about 6 ft  
distant when 1<sup>st</sup> observed, it rattled  
and then crawled in under small  
bank where it was shot. 10

Sceloporus were shot before returning  
to camp.

July 22

(P.M.) went out to locality at  
3½ mi. W Kennewick, 550 ft., Benton Co., Wash.  
and set 1 gopher set and 20 mouse traps  
along edge of cultivated field.





Hutton, J. E.

1939

## Itinerary

3½ mi W Kennewick, 550 ft., Benton Co., Wash.

July 23

(A.M.) - Results -

- 1 ♂ *Mus musculus*

Returned to camp at 7:30 A.M. at  
1 mi N. Burbank, 350 ft., Walla Walla Co. Wash  
and caught 1 ♀ *Marmota flaviventris* in  
No. 0 trap.

(P.M.) Went up Snake river a short ways  
to 2 mi. NW Burbank, 500 ft., Walla Walla Co., Wash.

Land is rolling dunes covered with  
sparse growth of sagebrush, cheatgrass, &  
Russian thistle. Soil is drifted sand.

- 1 *Lepus californicus* was shot.

14 *Sceloporus* and 1 *Coluber constrictor*  
taken. In the evening went  
to 2 mi SSE Burbank, 350 ft., Walla Walla Co., Wash  
and set out 50 mouse traps. Traps  
set 20 paces apart along sand dunes  
covered partly by growth of  
sagebrush, cheatgrass, and dry  
Russian thistle.

July 24

(A.M.) - Picked up traps - Results - -

5 *Perognathus parvus* (4 ♂ 1 ♀)

8 *Dipodomys ordii* (5 ♂ 3 ♀)

2 ♂ *Onychomys leucogaster*

1 ♂ *Reithrodontomys megalotis*

1 *Sceloporus* was caught also.





Atten J.E.  
1939

## Itinerary

July 24 - 1 mi N Burbank 350 ft. Walla Walla Co., Wash.

(P.M.) Went across Columbia & Snake rivers and up across Yakima R. also to Richland and set out 75 mouse traps 20 paces apart in hard sandy soil. Soil was loose sand in some spots. Vegetation cover of fairly heavy sagebrush, cheat grass and some cactus. 1 gopher trap set in sandy soil in field near town.

July 25 (A.M.) Picked up traps - Results.

4 *Perognathus parvus* 3 ♂ 1 ♀

Returned to camp and moved camp in P.M. to position near Lewis Peak in Walla Walla Co. -

7 mi E and 5 mi. S Dixie, 4300 ft., Walla Walla Co., Wash.

8:45 P.M. - shot *Myotis* (sp?) flying over open clearing near camp site. Set out 2 gopher sets in clearing covered with sand in reddish loose light loam. Soil fairly moist.

July 26 (A.M.) 1 gopher caught - (*Thomomys talpoides* ♀)

3 more sets put out. 12:30 P.M. - caught 2

more *Thomomys talpoides* 1 ♂ 1 ♀

12:45 P.M. - shot ♀ *Citellus columbianus* in dead branch pile resulting from tree trimming.

(P.M.) Moved camp to Stage white Spring Columbia Co.,





Chatter

1939

## Itinerary

Staya white spring, 5150 ft., Columbia Co., Wash.

July 26 cont'd. Wash. - Set out 50 traps 5 yds. apart in dense herbaceous growth along banks of small stream bordered by forest of Douglas fir, Western larch, Lodgepole pine and white fir(?) - Returned to camp and shot *Lasionictus nactus*

July 27 (A.M.) Picked up traps - Results

2 *Peromyscus maniculatus* 1 ♂ 1 ♀

1 *Clethrionomys gapperi* - prep. L. Davis

1 ♂ *Zapus trinotatus*

shot ♀ *Seiurus hudsonicus*

(P.M.) helped W<sup>m</sup> Longhorst + D. B. Johnson skin and *Odocoileus hemionus* killed by Longhorst.

8:35 P.M. - Shot 1 ♂ *Myotis* and another at

8:50 P.M. - prep. E. R. Hall. - Set out 50

traps along stream in similar locality as July 26 P.M. -

July 28

(A.M.) - Picked up traps - Results.

2 ♂ *Peromyscus maniculatus*

1 *Eutamias amoenus*. prep. E. R. Hall.

Shot 2 *Sitta canadensis*

1 Hammond Flycatcher (?) prep. J. Marshall

1 *Spinus pinus*

1 *Dryobates villosus*.

2 juv. *Seiurus hudsonicus*.

July 29

1 mi. W. Staya white Spring, 5300 ft., Columbia Co., Wash.

(A.M.) Went out with J. Marshall and shot





J. Chatwin  
1939

## Itinerary

1 mi. W Stager Lake Spring 5300ft., Columbia Co., Wash.

- July 29 (Contd)
- 2 hummingbirds - (Sp?) - grey W<sup>m</sup> longbeak
  - 1 Colaptes cafer
  - 2 Tō/minie warblers
  - 1 Cassin Purple finch
  - 1 Chickadee (Sp?)

July 29 (P.M.) - Broke camp and traveled to overnite camp. - No traps set out.

July 30 N.E. edge Alkali Lake, 4200ft., Lake Co., Oregon  
Arrived here about 6 P.M. - Set out 54 traps 20 paces apart. Traps set in sandy soil which is covered with baked alkali in spots. Vegetation surrounding dry lake bed is principally greasewood, grading into sagebrush some distance from the flat lake bed.

July 31 (A.M.) Picked up traps - Results.

- 2 ♀ Microdipodops megacephalus
- 1 ♀ Perognathus parvus
- 4 Dipodomys ordii 2♂ 2♀
- 17 Peromyscus maniculatus 10♀ 7♂
- 1 juvenile Sage Sparrow(?) shot in sage brush.

1/2 mi. E Vinton, 4900ft., Plumas Co., Wash.

Broke camp around noon and moved to present locality. Set out 58 traps in sagebrush and cheat grass in open sandy soil.

Aug. 1. (A.M.) Picked up traps - Results.





J. Chatfield  
1939

## Itinerary

2 mi. E Vinton, 4900ft., Plumas Co., Calif.

Aug (cont'd) - 14 *Dipodomys ordii* 7 ♂ 7 ♀

1 ♂ *Perognathus parvus*.

1 ♂ *Reithrodontomys megalotis*.





Chatter, J. E.

Oregon, Washington June 28 - Aug. 1, 1939

Species accounts





Scapanus orereus

Brooks Meadow 4300 ft. 9 mi. ENE Mt. Hood, Hood River Co., Oregon.

July 7

1 ♀ Scapanus orereus caught in  
mole trap set in run in  
short grass. Soil moist and  
fairly loose loam. Mole alive  
when taken from trap. When  
held by tail and put on ground  
the animal immediately began  
to dig into ground. Nose and  
fore feet used in digging. Nose  
marked with grey white spot  
about  $\frac{1}{2}$  in wide +  $\frac{3}{4}$  in long.





J. Chatten

Neurotrichus sp?

July 7 Brooks Mdw. 4300 ft., 9 mi. ENE Mt. Hood, Hood River Co., Oregon  
(AM) - Caught specimen in mouse  
trap set in thick growth of  
sedge. Lupine and Camass present  
nearby. Soil damp but firm.  
Much dead grass and sedge  
forming thick mat upon ground.





Sorex vagrans

Brooks Mdw. 4300ft., 9mi. ENE Mt. Hood, Hood River Co., Oregon

July 6

3 ♀ Sorex vagrans caught in 85 traps set 8 yds apart along edge of meadow. 1 shrew caught along edge of dead log, other two caught about 15 yds from edge of timber in thick matted growth of sedge (Carex) and Camas. Soil damp and vegetation moist.

July 7

- 1 ♀ S. vagrans caught in 62 traps set in about same places as July 6. (P.M.) - 1 ♂ Sorex caught during day between 6:00 A.M. and 4:30 P.M. in thick matted grass.





J. Chatter

*Myotis evotis*

July 27

Stayawhile Spring 5150 ft., Columbia Co., Wash.

Shot 2 specimens 8:35 + 8:50 P.M. in clearing near camp. Bats were flying at height of about 20-25 ft. when shot. Were flying fairly slowly and in more or less a straight line. Others were seen flying lower and closer to trees and buildings which may or may not have been same species.





J. Chatter

Loxionicterus nactivagus

Stagawile Spring, 5150 ft., Columbia Co., Wash

July 26 - Shot ♀ L. nactivagus flying over  
open clearing at height about 40 ft. (±).  
When first seen bat was flying  
10-20 ft above tall conifers but  
came down within range  
later. Others noted also were  
seen high in air in early evening,  
coming lower with approaching  
or increasing darkness. Moonlight.





J. Chatter

Eptesicus fuscus

Columbia R. 300ft. at mouth of Deschutes R., Wasco Co., Oregon

July 2

9:00 P.M. - Shot *E. fuscus* flying at height of about 30 ft. along edge of river. Slight wind blowing from NW - bat flying with the wind.





Marmota flaviventris

June 30

Crooked R. 3400 ft., 9 1/2 mi. SE. Prineville, Crook Co., Oregon

A Marmot picked up at side of road dead with skull crushed, possibly by passing auto. Another larger Marmot was observed going up the hillside, a lava rock slope, near the edge of a field of cultivated alfalfa.

July 15

Maryhill, 200 ft., Klickitat Co., Wash.

8:30 A.M. - observed small Marmot going into hole in base of lava rimrock at top of large talus slope. Vegetation for 50 yds only of dry cheat grass. Some green willows along river bank at greater distance.

July 23

1 mi. N Borbank 350 ft., Walla Walla Co., Wash.

7:30 A.M. - 3 Marmots seen at edge of large pile of driftwood at edge of cultivated field of alfalfa.

1 Marmot was shot but was not recovered since it crawled beneath the wood pile. 3 traps  
2 no. 0 + 1 1 1/2 were set and later in the morning a young Marmot was caught in a no. 0 trap.





J. Chatterin

Citellus lateralis

Brooks Mdw. 4300ft., 9mi. ENE Mt. Hood, Hood River Co., Oregon

July 6

3:15 P.M. - Shot ♀ Citellus lateralis on

fallen log at edge of meadow.

Several open burrow mouths present in vicinity but few other individuals noted.

July 11

Twin Buttes, 4300ft., 2mi. SW Steamboat Mtn., Skamania Co., Wash.

7:30 A.M. - Shot ♂ Citellus lateralis as

animal was sitting on top of 4 ft

dead tree stump at distance of

10 yds. - 2 other smaller squirrels noted within 10 yd. radius.

10:30 A.M. - Caught ♀ Citellus lateralis

in rat trap set near mouth of

burrow beside a stump of dead conifer.





J. Chatterin

Eutamias amoenas

Brooks Mdw. 4300ft., 9mi ENE Mt. Hood, Hood River Co., Oregon.

July 6

~~3:45 P.M.~~ - Caught ♂ E. amoenas in mouse trap set at edge of rotten log at edge of meadow.

July 7

(P.M.) caught ♂ E. amoenas in mouse trap set on top of dead log 10 ft. from edge of timber.





J. Chatter

Eutamias townsendii

Brooks Mdw. 4300ft., 9mi. ENE Mt. Hood, Hood River Co., Oregon

July 7. - P.M. - caught 2 E. townsendii in mouse traps left out during day. Traps set along edge of meadow and to some extent in timber. Specimens caught in much same situation as E. amoenus but somewhat nearer the edge of timber.





J. Chatter

Sciurus hudsonicus

Stayawhile Spring, 5150 ft., Columbia Co., Wash.

July 27 - Shot ♀ Sciurus hudsonicus as it was foraging about in tops of tall fir(?) tree. - Time (about 6:30 A.M.) - Animal was busy cutting off cones and letting them drop to ground.

July 28 - Shot 2 young S. hudsonicus - both near the ground on partly fallen conifers.





J. Chatter

Sciurus douglasii

Ice Caves, ft., 5mi Guler in Stkamania Co, Wash.

July 10 (9:50 AM.) Shot Sciurus douglasii as  
it was climbing about 15 ft. up.  
from base of large Douglas fir.  
Approached to within about 25 ft.  
of animal before shooting.





J. Chatter

*Thomomys talpoides*

July 2 Columbia R., 300ft., at mouth of Deschutes R. Sherman Co., Oregon

2 ♀ specimens caught in pasture in moist soil of loose loam. Soil is covered with sod in places and Timothy and weeds in others. Gopher mounds are numerous.

July 2 3 more gophers caught in same pasture

July 3 3 " " " " " "

one gopher was partially swallowed by *Pituophis catenifer*. Snake started swallowing at head of gopher and had proceeded until encountering trap in which gopher was held.

July 4 Columbia R., 300ft., at mouth of John Day R., Gilliam Co., Oregon.

1 gopher caught in hard soil containing rocks in dry alfalfa field. Caught July 3 shortly after setting trap (i.e. within  $1\frac{1}{2}$  hrs). Another specimen caught in same field in A.M. July 4

July 4 Columbia R. 300ft., 2 mi WSW Rufus, Sherman Co., Oregon

2 specimens caught in cultivated alfalfa field in very loose sandy soil. Burrows seem smaller than in more consistent soils.

July 25 7 mi. E and 5 mi. S Dixie, 4300ft., Walla Walla Co., Wash.

3 *Thomomys talpoides* caught in open clearing in grassy situation (short grass) Soil moist and firm.





J. Chatter

Thomomys monticola

Brooks Mdw. 4300 ft, 9 mi. ENE Mt. Hood, Hood River Co, Oregon.

July 6

3 T. monticola caught in 5 traps  
set in loose loamy soil in  
drier parts of meadow. Mounds  
very plentiful and burrows easy to  
find in soil which is slightly  
moist.





J. Chatter

Perognathus parvus

<sup>3400ft.</sup>  
Crooked R. at mouth of Bear Creek, Crook Co. Oregon

June 29

caught 5 P. parvus in 50 traps in sandy soil covered with Sagebrush, also in higher rocky soil with sparse bunch grass cover.

Columbia R. 300ft. at mouth of Deschutes R. Wasco Co. Oregon

July 1

2 P. parvus caught on hillside covered with dry cheat grass.

Maryhill, 200ft., Klickitat Co., Wash

July 16

3 ♀ P. parvus caught along slopes of a dry wash. Cheek pouch contents of 1 composed of seeds of cheat grass.

July 18

Paterson, 250ft., Benton Co., Wash.

Caught 38 P. parvus in 90 mouse traps set in sand dunes near sagebrush.

Cheek pouches contained seeds of cheat grass. Closed and open burrow mouths very plentiful. Tail tracks visible in sand are about 4 in.

long and about 1/8 in. wide

July 19

Black Island, 250ft., Benton Co., Wash.

caught 13 P. parvus in 42 mouse traps set 20 paces apart, in sagebrush growing in sandy soil.

2 mi. SW Irigon, 300ft., Morrow Co., Oregon

July 20

caught 18 P. parvus in 63 mouse traps set 20 paces apart.





J. Chatter

Perognathus parvus

8 mi. ENE Pasco, 650ft., Franklin Co., Wash.

July 22 - in 40 traps 15 paces apart caught  
26 P. parvus and at locality

5 mi ENE Pasco, 500ft., Franklin Co., Wash.

caught 21 P. parvus in 50 traps  
total of 47 mice in 90 traps

July 31 N.E. edge. Alkalibake, 4200ft., Lake Co., Oregon

caught 1 ♀ specimen in 54 traps  
set 20 paces apart in sandy soil  
in sagebrush and greasewood.

Little or no cheat grass present  
which may be responsible for  
low population of Perognathus.

17 Peromyscus maniculatus. 4 Dipodomys  
ordii 2 Microdipodops megacephalus

were caught same evening.

Aug 1. 2 mi. E Vinton, 4900ft., Plumas Co., Calif.

58 traps yielded only 1 P. parvus.

Sage brush & cheat grass plentiful.

-(Possibly altitude and not presence  
of food plants determines population?)

# THE HISTORY OF THE

REIGN OF

CHARLES THE FIRST

BY

JOHN BURNET

OF

THE UNIVERSITY OF OXFORD

IN TWO VOLUMES

LONDON

Printed by J. Streater, at the Sign of the Gun, in St. Dunstons Church-yard, 1679.

THE SECOND VOLUME

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Dipodomys heermanni

11 mi. NE Weed, \_\_\_\_\_ ft., Siskiyou Co., Calif.

June 28

- 1 specimen taken in Museum Special trap  
set in sand beneath high sagebrush.

Tracks plentiful in soft sand; track left  
by tail is distinctive being  $\frac{1}{8}$  to  $\frac{1}{4}$  in.

wide and 2-4+ in. in length.

Mouths of burrows observed usually  
beneath or between sagebrush.





Dipodomys ordiiCrooked R. 3400 ft., at mouth of Bear Creek, Crook Co., Oregon

- July 29 - 1 specimen taken in mouse trap in sandy soil 6 ft. from edge of road. Trap set at mouth of burrow about 2 in. in diameter. Trap was carried about 6 ft. but traced three feet. Sign of burrows & tail marks plentiful in soft sandy soil on flats along edges of Crooked river.

Black Island, 250 ft., 2 mi. SW Paterson, Benton Co., Wash.

- 1 Specimen taken in sandy soil near lava outcrop. trap set near large sagebrush. Sex couldn't be determined as animal had been split down left side and viscera and leg muscles eaten away by some animal. Tail and hind legs were neatly skinned out and fleshed partly. Trap had been moved a short distance (3 ft.)

2 1/2 mi. SW Tarragon, 300 ft., Morrow Co., Oregon

- July 20 - 1 ♂ specimen caught in trap in fairly hard soil beneath sagebrush. No mouths of burrows noted in immediate vicinity

2 mi. SSE Burbank, 350 ft., Walla Walla Co., Wash.

- July 24 8 specimens taken in 50 traps set in loose sand with cover of sagebrush and Cheatgrass. 1 specimen had been partially swallowed by snake and carried about 2 ft. from set.





J. Chatter

2

Dipodomys ordii

N.E. edge Alkali Lake, 4200ft., Lake Co., Oregon

July 31

- 4 specimens taken in drifted sandy soil near edge of dry lake bed. 1 young ♂ check pouch contents showed leaves of greasewood and several insects (membracids)?

Aug 1

2 mi. E Vinton, 4900ft., Plumas Co., Calif.

Caught 14 D. ordii in 58 traps set in fairly open sagebrush in sandy soil.





J. Chattin

Microdipodops megacephalus

N.E. edge Alkali Lake, 4200ft., Lake Co., Oregon

July 31

Caught 2 ♀ specimens in drifted sand near greasewood brush. Soil is soft and sandy. Vegetation surround is greasewood with some sagebrush. Mice were caught about 50 yds West of N.E. edge of the dry lake bed of Alkali Lake. Burrows fairly abundant in vicinity resembling those of Perognathus. Tail marks inferred to be those of Microdipodops are about 2-4 in. long and fairly thick (wide). In comparison they are wider than the tail mark of Perognathus parvus and shorter but of about the same width as those made by Dipodomys ordii.





J. Chatter

Onychomys leucogaster

Paterson, 250ft., Benton Co., Wash.

July 18 - caught 1 Onychomys in trap set in drifted sand near edge of old fence line in which were held many dead Russian thistles. Trap 5 ft. from nearest cover.

July 24 2 mi. SSE Burbank, 350ft., Walla Walla Co., Wash

- caught 2 Onychomys in mouse traps set in sandy soil near sand dune. Vegetation of sagebrush & cheatgrass.





Reithrodontomys megalotisColumbia R. 300 ft., at mouth of Deschutes R., Sherman Co., Oregon

July 2 6 field mice caught caught along fence line near edge of pasture. Vegetation cover of thick brush and willows on one side & grass and weeds in pasture. (35 traps 10 yds apart)

July 3 - 4 Reithrodontomys megalotis caught in same locality along edge of cultivated alfalfa field and willow thicket in 48 traps 15 yds apart.

July 16 Maryhill, 200 ft., Klickitat Co., Wash.  
2 ♀ R. megalotis caught along bottom of dry wash. in vegetation of Cheat grass, wild oats. Some scrubby bushes nearby.

July 18 Paterson, 250 ft., Benton Co., Wash.

3 field mice caught in sandy soil near edge of dry abandoned field. 1 ♀ contained 2 6 mm. embryos.

Aug 1. 2 mi. E Vinton, 4900 ft., Plumas Co., Calif

1 ♂ Reithrodontomys caught beneath sagebrush in sandy soil in <sup>line of</sup> 58 traps 10 yds apart.





J. Chatter

Peromyscus maniculatus

Crooked R., 3400 ft. at mouth of Bear Cr., Crook Co., Oregon

June 29 - caught 10 Peromyscus in 50 traps set in sandy soil in sagebrush, and on rocky hillside in junipers. - Most mice caught in junipers and not in sand.

Brooks Mdw. 4300 ft. 9 mi. ENE Mt. Hood, Hood River Co., Oregon

July 6 - Caught 6 P. maniculatus in 85 traps. set in meadow and at edge of timber. - Specimens caught in traps near timber and not out in open meadow.

Twin Buttes, 4300 ft. 2 1/2 mi. SW Steamboat Mtn., St. Marian Co., Wash.

July 12 - specimens caught at present locality mostly in traps set near edge or underneath brush piles.

July 16. Maryhill, 200 ft. Klickitat Co., Wash.

6 Peromyscus in 60 traps set along dry wash.

July 30 N.E. edge Hl Kalid Lake, 4200 ft. Lake Co., Oregon.

17 P. maniculatus caught in 54 traps. Specimens caught in traps set near or beneath large clumps of Sagebrush or Greasewood.





J. Chattin

Peromyscus truei

June 30 Crooked R., 3400ft., at mouth of Bear Cr. Crook Co., Oregon  
1 juvenile ♂ specimen taken in trap  
set in lava outcrop on sidehill above  
river. Rocks were large (6 in - 1 1/2 ft) in  
diameter and covered with lichen  
growth in spots. Sparse bunch  
grass (sp ?) was present in shallow  
soil between rocks.





J. Chatterin

*Neotoma cinerea*

Maryhill, 200 ft., Klickitat Co., Wash.

July 16

(H.M.) Caught 2 ♀ N. cinerea in 10 cat traps set along edge of dry wash. 1 caught beneath unused wooden bridge, the other in creek bed beneath large pile of dead brush. Feces noted deposited on rocks and along trails - size ○. Urine spots (white) noted on rocky outcrops along sides of wash.





Clethrionomys gapperi

Twin Buttes R.S., 3900ft., 3mi. WSW Steamboat Mtn, Skamania Co., Wash.

July 10 (4:25 P.M.) - caught a live C. gapperi at base of a large fallen log surrounded by heavy timber and thick herbaceous undergrowth, about 5 yds. from small stream. Tree had been uprooted and dirt and roots at the base contained several burrows.

July 11 - traps set in and around place where mouse was caught failed to catch more of same kind.

July 27 Stacya White Spring, 5150ft., Columbia Co., Wash.

1 specimen caught in 50 traps set along edge of stream in herbaceous growth and brush. - Specimen was caught in trap a few inches from edge of stream near half buried log.





J. Chatter

Phenacomys intermedius

Brooks Meadow, 4300ft., 9 mi. ENE Mt. Hood, Hood River Co., Oregon

July 7

♀ *Phenacomys* - (Spec. no. 69 J.E.C.)  
caught in trap set in thick grass  
and sedge in meadow. Soil  
damp but firm. No special  
runways noticed





Zapus trinotatusBrooks Mdw. 4300 ft, 9 mi. ENE Mt. Hood, Hood River Co., Oregon

July 6 - (A.M.) 1 ♂ Zapus caught in 85 traps 8 yds apart. Specimen caught in deep grass and sedge (Carex) in bottom of small ditch.

July 7 (A.M.) - another ♂ Zapus caught in exact spot as previous night.

July 8 2 Zapus 1 ♂ 1 ♀ caught within 10 yds of those caught July 6 & 7. 1 ♀ contained 7 embryos.

Ice Caves ft, 5 mi. Guler, <sup>in</sup> Stamenia Co. Wash.

July 10 - ♀ Zapus caught in fairly open forest near fallen log. Ground cover of wild strawberries. Land fairly well grazed off by cattle.

Twin Buttes R.S. 3900 ft, 3 mi. WSW Steamboat Mtn. Stamenia Co. Wash

July 12 - 1 ♂ Zapus caught in fairly open space near edge of brush.

Stayawhile Spring, 5150 ft, Columbia Co., Wash

July 27 - 1 ♂ Zapus caught in thick herbaceous cover near edge of small stream.





J. Chatter

Erithizon epixanthum

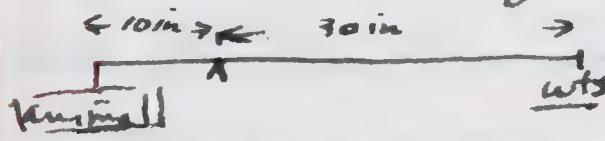
Columbia R., 300 ft., 2 mi. WSW Rufus, Sherman Co., Oregon

July 4 - Picked up cranium (lower jaws could not be found) of young porcupine in rocky slope beneath canyon rimrock.

Twin Buttes R.S., 3900 ft., 3 mi. WSW Steamboat Mtn., St. Helens Co., Wash.

July 12 (5:45 P.M.) - Shot large ♂ E. epixanthum on large fallen log partially covered with branches of surrounding trees. Animal remained motionless except for turning head slightly. Shot with .410 aux 12 ch. at 12-15 ft.

Animal weighed by offset balance



- using shotgun

shells for weights. These were weighed on small scales and total  $\times 3$  giving actual weight of animal.





Ochotona princeps

1 mi. SE Sawtooth Mtn., 4200 ft. Stenmenia Co. Wash.

July 13 (12:30 P.M.) - Shot pika as it came out upon top of a large rock. Animal called several times before it was visible to observer and then came out into open. - Rock slide where animals are found composed of large angular boulders from 1-5 ft. in diameter. Rock slide interspersed in spots with clumps of willow (sp?). Feces noted in localized spots were about size of BB shot. Small stores of dried grass were noted on 2 occasions in the rocks. - Voice of pika is peculiar high pitched, reedy squeak given singly at intervals. Answering(?) notes are given by neighboring individuals.





J. Chatter

Lepus washingtonii

Brooks Mdw. 4300ft., 9mi. ENE Mt. Hood, Hood River Co., Oregon

July 7

(7:00 A.M.) - Shot ♀ snowshoe rabbit near roadside at edge of forest. Fairly heavy undergrowth of shrubs and herbaceous plants. Rabbit hopped across road about 10 yds ahead of observer and stopped after reaching cover. Approached fairly close (12 ft) and then backed off and shot rabbit at 7 yds distance.

(5:30 P.M.) - Shot young L. washingtonii in brush thicket near edge of small stream. Animal noticed after taking shot stop, remained motionless for short time and was shot with 410 auy. at distance of about 15 ft.

July 8

(6:10 A.M.) 1 Lepus washingtonii shot beneath Douglas fir in herbaceous undergrowth. Rabbit only 3 yds. distant when 1<sup>st</sup> observed. It hopped away and stopped after going only about 5 yds where it was shot with 410 auy (12 ch.).





Bufo boreas

July 10

Twin Buttes, 4300ft., 2½ mi. SW Steamboat Mtn, Skamania Co., Wash.

4:30 P.M. - in open clearing surrounded by willows and thick brush many young toads were noted. Clearing covered with coarse grass about 4 in. high growing in soil covered in most places with 1-3 in. of water. Soil and grass form sort of a marsh or bog. All toads collected here were young, with exception of 2 or 3 adults. Frogs were also present but in fewer numbers. 1 Hyla regilla was taken in the same locality.





J. Chatter

Coluber constrictor

2 mi. NW Burbank, 500 ft., Walla Walla Co., Wash.

July 23

- Caught specimen near large rock in sandy soil near edge of unused water trough. Vegetation surrounding of cheat grass and Russian thistle



J. Chatin

Crotalus confluentus(?)

8 mi. ENE Pasco, 650 ft., Franklin Co., Wash.

July 22

7:45 A.M. - While picking up traps in sand dune covered with some sagebrush and sparse cheat grass a rattlesnake was observed at a distance of 6 ft. The snake rattled and then crawled about 4 ft. under a small bank beneath a sagebrush where it remained partially coiled and was shot.





J. Chatter

Hyla regilla

Crooked R. 3400ft., at mouth of Bear Cr., Crook Co., Oregon

June 29 - 8:20 P.M. - 40 yds from mouth of  
Bear Creek caught Hyla near bank  
of creek in short grass and some  
taller herbaceous growth,

Twin Buttes R.S. 3900ft., 3 mi. WSW Steamboat Mtn., Skamania Co., Wash.

July 10 - 4:35 P.M. - caught Hyla in tall  
wet grass near willows at edge  
of bog. Individual 1<sup>st</sup> noted about  
2 ft above ground but hopped down  
into thicker grass and was caught.





J. Chatter

Pituophis catenifer

Columbia R. 300 ft., at mouth of Deschutes R. Sherman Co., Ore.

July 3 (5:10 P.M.) Caught gopher snake as it was attempting to swallow trapped *Thomomys talpoides*. Snake when observed released gopher and attempted to escape by crawling down gopher burrow.

July 4 Columbia R. 300 ft., at mouth of John Day R. Gilliam Co., Oregon

(7:15 P.M. July 3.) Caught gopher snake crawling near ditch bank at edge of cultivated alfalfa field 5 mi. ENE Pasco, 500 ft., Franklin Co., Wash.

July 22 caught 2 gopher snakes within 40 yds of each other. 1 snake attempting to swallow trapped *Perognathus parvus*, the other found near a trap.



J. Chatter

Scaphiopus sp(?)

Paterson, 250 ft. Benton Co., Wash.

July 17 24 Scaphiopus. Caught in pond  
along edge of Columbia R. between  
8:45 & 9:15 P.M. - Frogs easily  
caught sitting at edge of shallow  
water in short grass.





Chattin, J. E.

Imperial Co., Calif.

Jan. 4 - 20, 1940





Imperial County  
1940 Jan. 4-20

Specimen register  
Nov. 310-465



Chattin, J.  
1940

## Catalogue

250ft. 5mi S Palo Verde, Imperial Co., Calif

Jan. 5, 1940

- 310 ♂ *Peromyscus* 168-75-21-20; 25.6 gm.  
311 ♂ *Perognathus spinatus* 196-115-23-9; 18.1 gm.  
312 ♀ *Perognathus penicillatus* 183-104-25-9; 19.2 gm.

220ft. 3½ mi. S Palo Verde Imperial Co., Calif.

- 313 ♀ Green-winged teal 257 gm.

250ft. 5mi. S Palo Verde, Imperial Co., Calif.

~~314~~ Jan. 6, 1940

- 314 ♂ *Perognathus penicillatus* 188-107-24-9; 17.5 gm.  
315 ♀ " " 179-97-24-9; 16.0 gm.

- 316 ~~Sceloporus~~ *Uta*

400ft. 6 mi. N Midway Well, Imperial Co., Calif.

Jan. 10, 1940

- 317 *Uta* (?)

- 318 "

- 319 "

200ft. 2mi. N Potholes, Imperial Co., Calif

Jan. 11, 1940

- 320 *Uta*

- 321 "

- 322 "

- 323 ♂ *Macrotus californicus* ~~96~~<sup>96</sup>-36-12-34-12<sup>m</sup>; 15.1 gm

- 324 ♂ " " 86-32-12-34-12; 14.0 gm

- 325 ♂ " " 97-33-12-34-11; 14.2 gm

- 326 ♂ " " 92-35-12-33-12; 13.8 gm.

- 327 ♂ " " 92-32-12-34-12; 13.4 gm

- 328 ♂ " " 91-34-13-35-13; 11.6 gm





Chattin, J.  
1940

## Catalogue

### 200ft, 2mi. N Potholes, Imperial Co., Calif.

- 329 ♂ *Microtus californicus* 97-35-13-34-14; 15.3 gm.  
330 ♂ " " 99-35-13-34-14; 16.0 gm.  
331 ♂ " " 94-34-13-34-15; 15.8 gm.  
332 ♂ " " 91-33-13-33-14; 14.3 gm.  
333 ♂ " " 93-35-12-33-14; 12.3 gm.

### 150 ft. 2 mi SW Potholes, Imperial Co., Calif

Jan. 11, 1940

- 334 ♀ (emb) *Thomomys b. albatrus* 221-73-31-6; 139 gm.

Jan. 13, 1940

- 335 ♂ *Thomomys b. albatrus* 235-70-32-7; 180 gm.  
336 ♂ " " 237-77-34-7; 169 gm.  
337 ♀ (4 emb) " " 219-68-32-6; 162 gm.  
338 ♀ (2 emb) " " 225-70-32-6; 162 gm.  
339 ♀ " " 214-69-31-6; 120 gm.

Jan 14, 1940

- 340 ♀ " " 220-84-32-6; 112 gm.  
341 ♂ *Sigmodon hispidus* 234-103-29-18; 76.5 gm.

### 450ft, Arroyo Seco, 5 1/2 mi N and 1 mi. W Midway Well, Imperial Co., Calif.

Jan 16, 1940

wt - 185 lbs

- 342 ♂ *Odocoileus hemionus eremicus* 1775-183-465-224-132  
- 180 ft, 1 1/2 mi. W Niland, Imperial Co., California

Jan 18, 1940

343 *Rana*

- 344 ♀ *Thomomys b. albatrus* 240-84-31-7; 152 gm.  
345 ♀ " " 246-90-32-6; 171 gm.  
346 ♀ " " 235-79-31-6; 141 gm.  
347 skull only ♀ " " 205-72-31-6; 106 gm.





Chatter, J  
1940

Catalogue

-180 ft. 1 1/2 mi. W Niland, Imperial Co., Calif.

Jan. 18, 1940

- 348 ♀ *Thomomys bottae* 228-76-31-6; 128.5 gm  
349 ♀ " " 237-75-31-6; 162 gm.  
350 ♀ " " 229-76-31-6; 146 gm.

Jan 19, 1940

- 351 ♂ " " 251-89-34-7; 201 gm  
352 ♀ " " 237-81-34-7; 170 gm.

13 mi. W Palomar, Imperial Co., Calif.

Jan. 8, 1940

still only  
466

*Taxidea taxus* (picked) no sex,

-180 ft. 1 1/2 mi. W Niland Imperial Co., Calif.

coll

Jan. 14, 1940

- 463 ♂ *Thomomys* 281-112-37-5; 142.5 gm (died Feb. 8, 1940)  
464 ♀ " 228-67-32-5; 132 gm (died Feb 11, 1940)  
465 ♀ " 231-78-34-5; 138.5 gm (died Feb. 12, 1940)



Imperial Co., Calif.

Jan. 4 - 20, 1940

Itinerary





Chattin J.

1940

## Itinerary

250 ft. 5 mi S. Palo Verde, Imperial Co., California

Jan. 4

P.M. - W<sup>m</sup> Longhurst and I drove from Phoenix Ariz. to Blythe, Calif. where we ate lunch and purchased supplies. We left Blythe about 2:30 P.M. and travelled west on the main highway for about 3 miles, then turned southward on the road leading to Palo Verde. From there we drove south to the present locality, arriving about 3:00 P.M. This locality is about 3 miles west of the Colorado river on the homestead or ranch owned by Styler (?) (or Stiler). 100 yds. or so east of the house is a large slough along the river bottom, westward  $\frac{1}{4}$  mi is the mesa above the river flood plain which is cut by numerous washes running towards the river. Vegetation along the river or slough consists of tule (Scirpus lacustris), Ironwood, Palo Verde, and mesquite. Creosote bush (Covillea)





Chattin J.  
1940

## Itinerary

Jan 4 -  
(cont'd.)

250 ft., 5 mi. S. Palo Verde Imperial Co. Calif.  
is found also on the higher land away from the river floodplain. Soil in the washes is gravelly or coarse sand grading into rough rocky land on higher spots between dry washes. 35 small mouse traps were set about 10 yds. apart in fairly loose sand on a small knoll. 2 no 1 steel sets were also set in the mouths of 2 burrows in a mesquite thicket. 2 rat traps were set inside the house.

Jan 5 - A.M. - in the 35 mouse traps were caught 2 *Dipodomys* (1 ♂ 1 ♀), 3 *Peromyscus* (1 ♂ 2 ♀), 5 *Reithrodontomys* (2 ♂ 3 ♀), 1 ♀ *Mus musculus* 4 *Perognathus* (2 ♂ 2 ♀) 1 ♂ *Neotoma* was caught a steel trap.

P.M. - Longhurst and I drove back up towards Palo Verde 3 1/2 mi S. Palo Verde I shot a ♀ Green-winged teal on a small shallow "lake".

4 mi S Palo Verde - I shot a ♂

1. The first thing I did when I got up  
was to go to the bank and see how  
much money I had. I found I had  
just enough to pay my rent and  
buy some food. I was very  
glad to see that I had not  
run out of money yet. I then  
went to the store and bought  
some things. I was very  
careful not to spend too much.  
I then went home and made  
some tea. I was very tired  
but I felt good. I then went  
to bed and fell asleep. I was  
very happy to see that I had  
not run out of money yet.



Chatterin J.  
1940

## Itinerary

Jan 5  
cont'd

Gambell Quail in sandy wash  
with Arrowweed and Creosote bush.  
- After dark we returned to  
camp at 5 mi S Palo Verde  
10 small mouse traps were  
set out along Arrowweed thicket  
at edge of slough and 10 others  
set out in sandy soil in a  
wash. Tent was put up in evening.

Jan 6. A.M. - In traps in wash were  
caught 2 *Perognathus floridicollis* (1 ♂ 1 ♀)  
1 ♀ *Reithrodontomys* 1 ♂ *Peromyscus*  
2 ♀ *Dipodomys* - In the traps along  
the slough were caught 5 *Peromyscus*  
(4 ♂ 1 ♀) 2 ♀ *Mus musculus*. Moved to  
400 ft. 6 mi. N Midway Well, Imperial Co. Calif.

Jan 10 Caught 3 *Uta* in dry wash.  
Moved camp to locality  
150 ft. 2 mi SW Potholes, Imperial Co. Calif.

Jan 11 Looked up camp of W. J. Wood here  
who took us to an old mine  
shaft where we caught several  
*Microtus californicus* - (all ♂'s) and shot  
3 *Uta* sp.? 3 gopher sets put out.

Jan 12 Together Longhurst and I set  
out 24 live traps for *Sigmodon*.  
Traps were set in thick





Chattin  
1940

## Itinerary

150 ft. 2 mi. SW Potholes, Imperial Co., Calif

Jan 12  
(cont'd)

Bermuda grass near  
Arrow-weed patches along the  
banks of an irrigation canal.  
4 Sigmodon were caught  
during the day. 8 gopher  
traps put out along the canal  
banks in light sandy  
loam soil.

Jan 13

- Live traps moved to new  
area. Several more gopher  
sets put out (old sets moved)

Jan 14

- 3 Sigmodon caught yesterday  
P.M. (during the day) - 1 died  
in trap probably from exposure  
to dried heat of sun.

P.M. - Several more Sigmodon  
caught during day.

Jan 15

- A.M. - Live traps picked up.  
Moved camp about noon  
and went to Yuma to get  
supplies and ship Sigmodon (21)  
to Hooper John. 4 cages (Young's  
Animal Trap Co.) were packed with  
Bermuda grass and lettuce,  
oats, & apple and rats  
selected by size were placed  
in cages and shipped by





Chatter  
J.  
1940

## Itinerary

Jan 15  
(contd)

150 ft., 2 mi. SW Potholes Imperial Co. Calif.  
Railway Express. During P.M.  
we travelled up highway  
from Ogilby to Arroyo Seco  
(locally known as Milpitas Wash)  
and thence down the wash  
to cabin owned by Comer  
where we spent the night.

Jan 16,

Travelled from Comer's place  
back up Arroyo Seco to  
highway and thence on up  
the wash on a road leading  
up along the north edge  
of the wash to present  
locality. Arrived about  
noon and ate lunch and  
then started up a side wash  
leading northward from  
main wash. Hiked up  
to base of mountains and  
returning towards camp  
noted 10 or 12 long-eared owls  
along a steep-banked wash  
about 2 mi. above road.  
Coming on down wash observed  
herd of about 8(?) deer. (2 bucks  
3 does + 3 fawns) at distance of





Chattin  
1940

## Itinerary

Jan. 16  
(contd.)

about 300 yds. Approached to within 150 yds or so by running and then shot the largest of the 3's - once thru foreleg and 2nd shot thru midsection. Remainder of herd ran on back up the next wash. Longhurst shot 3 point buck and a doe about 15 minutes later (3:30 P.M.)  $1\frac{1}{2}$  mi. or so away - (evidently from the same group). Returned to camp and transported all 3 deer to camp about 50 yds from where 1<sup>st</sup> deer was killed.

Jan 17

A.M. - Spent skinning deer.  
P.M. - moved camp and drove to Niland where we spent the night.

Jan. 18;

- 180 ft;  $1\frac{1}{2}$  mi. W Niland, Imperial Co. Calif.

A.M. - I set out 11 gopher sets along canal bank and in abandoned field. Soil light mellow sandy loam. Bermuda grass + Arrow-wood vegetation along banks of canal.





Chattin  
1940

## Itinerary

- 180 ft, 1 1/2 mi. W Niland, Imperial Co. Calif.
- Jan 18 (cont'd) - P.M. - 9 gophers caught in sets. 2 caught by front foot still alive and vigorous so were caged. - Moved several traps further along canal bank. 1 Rana sp? caught in canal.
- Jan 19 - Picked up gopher sets. 1 more live gopher taken as well as 5 others. Of 15 gophers caught only 2 are ♂s - (1 skin + one alive yet) All ♀s seem to be adults but contained no embryos. - Of 7 ♀s caught at 150 ft. 2 mi SW Potholes - 3 contained embryos at fairly early stages of development.
- P.M. - Packed car and started for Berkeley at 2:00 P.M.
- Jan 20 - Arrived in Berkeley at 4:00 A.M.
- P.M. - 3 gophers still alive. These transferred to larger cages and fed.





Chattin, J. E.  
Local; Alameda and Napa Cos.

Feb. 4 - 26, 1940

Catalog of Specimens



Local. -

Alameda & Napa Co.,

1940

Feb. 4-26, 1940

Specimen Nos. 353-467





Chatting,  
1940

## Catalogue

200 ft., Huichica Cr., Napa Co., Calif.  
Feb. 4, 1940

353 *Batrachoseps attenuatus*

354 " "

355 " "

356 " "

357 " "

358 " "

359 " "

360 " "

361 " "

362 " "

363 " "

364 " "

365 " "

366 " "

367 " "

368 " "

369 " "

370 " "





Chattin, J.  
1940

Catalogue

200 ft., Huichica Cr., Napa Co., Calif.

371	<i>Batrachoseps attenuatus</i>	Feb. 4, 1940
372	" "	
373	" "	
374	" "	
375	" "	
376	" "	
377	" "	
378	" "	
379	" "	
380	" "	
381	" "	
382	" "	
383	" "	
384	" "	
385	" "	
386	" "	
387	" "	
388	" "	
389	" "	
390	" "	
391	" "	
392	" "	
393	" "	
394	" "	
395	" "	
396	" "	
397	" "	



Chattin, J.  
1940

Catalogue

200 ft., Hinchica Cr., Napa Co., Calif.

398 *Batrachoseps attenuatus*

399 " "

400 " "

401 " "

402 " "

403 " "

404 " "

405 " "

406 " "

407 " "

408 " "

409 " "

410 *Aneides lugubris*

411 *Batrachoseps attenuatus*

412 " "

413 " "

414 " "

415 " "

416 " "

417 " "

418 " "

419 " "

420 " "

421 " "

422 " "

423 *Ensatina escholtzii*

424 " "





Chatter J.  
1940

Catalogue

200 ft., Huichica Cr., Napa Co., Calif.

425 *Aneides logubris*

426               "               "

427               "               "

428               "               "

429               "               "

430               "               "

431               "               "

432               "               "

433               "               "

434               "               "

435 *Sceloporus occidentalis*

436               "               "

437               "               "

438               "               "

439               "               "

440               "               "

441               "               "

442               "               "

443               "               "

444               "               "

445               "               "

446               "               "

447               "               "

448               "               "

449               "               "

450               "               "

451               "               "





Chatter, J.  
1940

## Catalogue

200 ft. Huichica Cr., Napa Co., Calif.

Feb. 4, 1940

- 452 *Sceloporus occidentalis*  
453 *Gerrhonotus multi-carinatus*.  
454 *Eumeces skiltonianus*  
455 " "  
456 " "  
457 " "  
458 " "  
459 " "  
460 " "  
461 *Triturus torosus*  
462 " "

4000 ft., 4 mi. W Fallon, Churchill Co., Nevada


Feb. 26, 1940

- 467 ♂ *Thomomys b. canus* 278-81-35-9 newb.  
(rec'd from Ray Alcorn.)



Chattin, J.  
1946

## Itinerary

- 200 ft. Berkeley, Alameda Co., California  
Jan. 20. - 1 ♂ and 2 ♀ Thomomys bottae albatos,<sup>(?)</sup>  
taken alive from loose light  
sandy loam soil along the  
bank of a drainage canal at  
- 180 ft., 1½ mi. W Niland, Imperial Co., Calif.  
have been transferred to larger  
cages and fed. All 3 were 1<sup>st</sup> given  
rolled oats after about 36 hrs  
of "fasting". Oats were taken  
readily, the animals coming out  
of cotton "nests" in presence  
of observer to obtain food.  
Later other food consisting of  
walnuts, split peas, celery, rolled oats,  
barley, and potato was put into  
the cages.
- Jan 23 - 3 T. albatos transferred into a  
3 celled cage  of wood (-)  
and ¼" mesh wire (==), the large ♂  
being put into the center cage.  
1 adult ♂ Thomomys bottae bottae  
taken Nov 25(?) 1939 by Alton Hixon  
below East shore (101) just north  
of county line in Contra Costa Co.  
has also been moved here (2135 L. S.B.)  
after being cared for by S. B. Benson  
for the past month. Previous





Chattin  
J.  
1940

## Itinerary

200 ft., U.C. Campus, Berkeley, Alameda Co., Calif.

Jan. 23  
(cont'd)

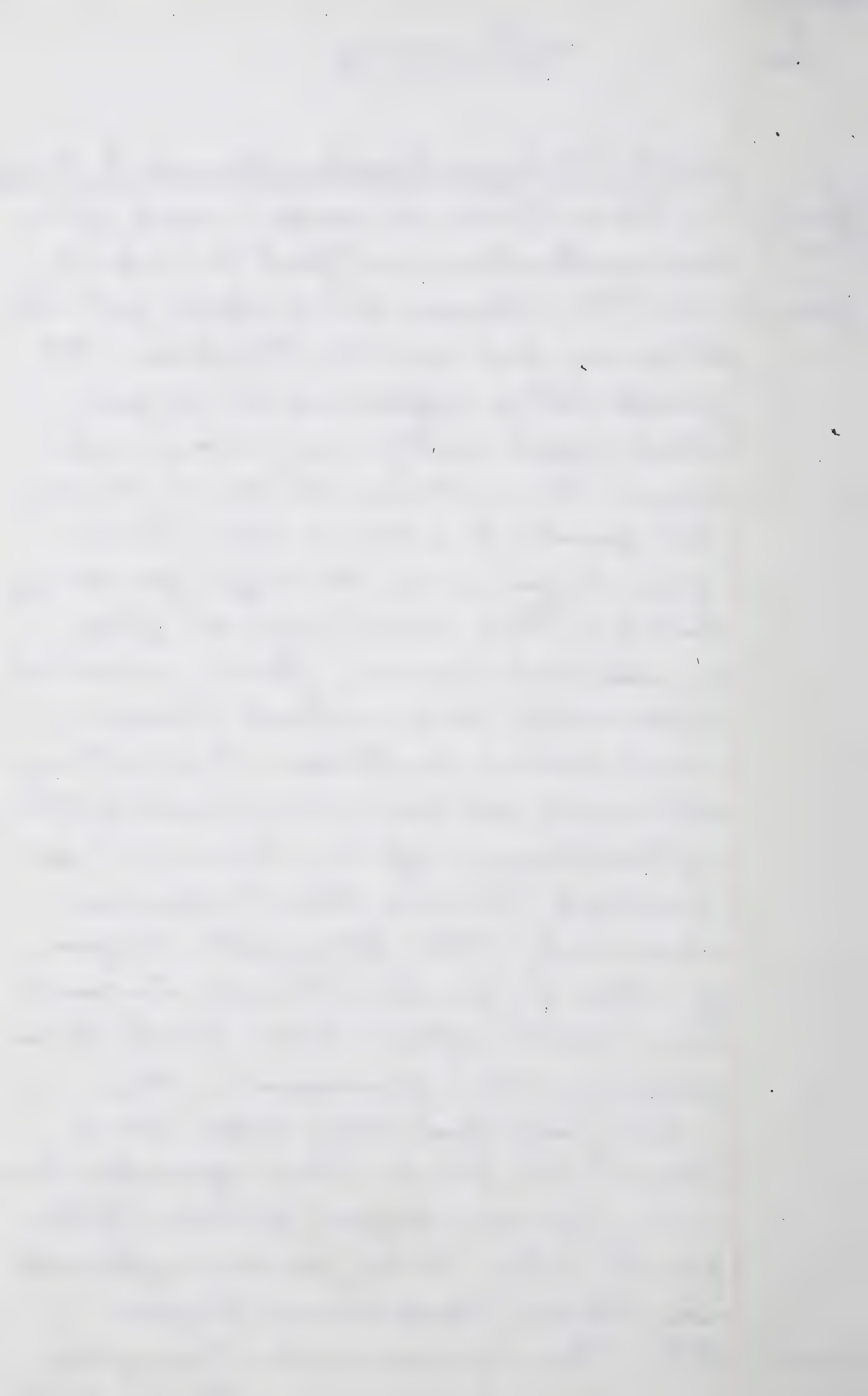
to this time it was used for demonstration in Zool. 10 and 116.

Jan 28

7:30 P.M. - Small ♀ T. b. albatos put into bottom of box with ♂ T. albatos. At first they appeared to fight, but apparently no damage done to either. Later ♂ began to push ♀ about the box (face to face) as though pushing dirt. This continued for a short time. Both would separate for a short time but soon return to pushing at each other, at times both standing up on hind legs. Several times the ♂ nosed around the perineal region of the ♀ and 3 times turned her over upon her back. During parts of the procedure the ♀ made several squeaks and the ♂ at times also "squeaked," but in a much deeper pitch. After about 1/2 hr. both were replaced in their respective cages.

Jan 30.

P.M. - For convenience hereafter the following designations shall





Chattin  
J.  
1940

## Itinerary

200ft., U.C. Campus, Berkeley, Alameda Co., Calif.

Jan. 30  
Contd.

he used.

A<sub>1</sub> = large ♂ T. bottae albatrus

A<sub>2</sub> = small ♀ T. b. albatrus - injured left front foot.

A<sub>3</sub> = large ♀ T. b. albatrus - uninjured.

B<sub>1</sub> = large ♂ T. b. bottae -

Z<sub>1</sub> = small ♀ T. b. agricolaris? - from

Napa

This evening several different combinations of individuals were experimented with.

B<sub>1</sub> and Z<sub>1</sub> placed together - paid little attention to each other.

A<sub>1</sub> and Z<sub>1</sub> placed together with little result - pushed each other about but seemed more interested in getting loose than in each other.

B<sub>1</sub> and A<sub>2</sub> placed together with little result.

B<sub>1</sub> and A<sub>3</sub> placed together - didn't get along so well - both were fairly belligerent and began fighting. Were separated and replaced in cages only after B<sub>1</sub> had bitten the inner right hind leg of A<sub>3</sub>. This was



Chattin  
J.  
1940

## Itinerary

200 ft. U.C. Campus Berkeley, Alameda Co., Calif.  
covered with "Catbo-fong" (disinfectant)  
and animals were replaced in  
cages. H<sub>2</sub>, whose left front  
foot was injured in trap, was  
examined. Its foot was swollen  
slightly and claws turned  
under. Some pus accumulation  
was present in the pad. This  
sore was opened with a  
needle and treated with  
disinfectant.

200 ft. Huichica Creek, Napa Co., Calif.  
Feb. 4. Spent the afternoon at Loughurst's  
ranch collecting amphibians  
and reptiles under stones  
and rotten wood. Weather  
was damp with showers  
at intervals. Habitat included  
riparian, live oak and open  
grassland.

Feb. 8 200 ft. U.C. Campus, Berkeley, Alameda Co., Calif.  
H.M. - Large ♂ T.b. albatrus found dead  
in cage. No apparent evidences of  
injury etc. - Prepared as study  
skins. -





Chattin, J. E.

Oregon, Washington

July 21 - Aug. 27, 1940





Oregon - Washington  
1940 - July 21 - Aug. 27

Specimen register  
Nos. 500 - 871



Chattin  
1940

## Catalogue

18 1/2 mi. NW Portland, 1300 ft. Washington Co., Oregon

July 22

Skull only	500	♀ <i>Sorex</i> <del>townsendii</del>	118-55-11-7; 4.5 gm.
Skull only	501	♂ <i>Eutamias townsendii</i>	240-110-37-21; 61 gm.
	502	♀ <i>Microtus</i>	181-72-23-15; 43.2 gm.
	503	♀ <i>Mus musculus</i>	146-69-16-13; 14 gm.
	504	♂ " "	141-69-15-12; 10.5 gm.
	505	♂ <i>Peromyscus m. rubidus</i>	197-109-20-19; 20.5 gm.
	506	♂ " " "	177-90-20-19; 22.7 gm.
	507	♀ " " "	175-87-21-18; 23.0 gm.
	508	♀ " " "	183-95-19-18; 24.5 gm.

July 21

509 ♂ *Lasionycteris nactivāgans* 80-31-6-16 to 3; 10 gm.

July 22

510	♂	<i>Eutamias townsendii</i>	230-102-36-22; 65 gm.
511	♂	" "	229-103-33-21; 49 gm.
512		<i>Gerrhonotus</i>	
513		<i>Rana</i>	
514		"	
515		<i>Thamnophis</i>	
516		<i>Bufo boreas</i>	
517	♀	<i>Myotis</i>	94-43-6-14-to 5; 8.0 gm.

July 23

518	♀	<i>Sciurus douglasii</i>	318-129-46-23; 223 gm.
519	♀	" "	320-132-46-23; 210 gm.
520	♀	<i>Eutamias townsendii</i>	235-105-35-22; 61.5 gm.
521	♂	<i>Peromyscus m. rubidus</i>	196-105-20-18; 20 gm.
522	♀	" " "	195-95-21-19; 26 gm.





Chatterin, J.

1940

Catalogue

18 1/2 mi. NW Portland, 1300 ft. Washington Co. Oregon

523	Rana	
524	"	
525	Thamnophis	
526	Gerrhonotus	
527	♂ Myotis	77-31-5-12-ta 5; 4.1 gm
528	♂ Lasionycteris nactivagans	98-39-8-19-ta 6; 13.0 gm
529	♀ Citellus	460-197-58-29; 485 gm
530	♂ Aplodontia	330-18-48-27; 991 gm.

July 24

531	♂ Sciurus douglasii	328-140-50-25; 180 gm
532	♂ Eutamias townsendii	257-115-36-20; 88.5 gm
533	♂ " "	244-110-35-21; 62 gm.
534	Rana	
535	Thamnophis	
536	♀ Myotis	93-38-6-12-ta 6; 6.5 gm.

July 25

537	♀ Sorex	(98)-(12)-12-6; 5.5 gm.
538	♂ Microtus	122-30-15-10; 22.0 gm
539	♂ Mus musculus	157-76-17-14; 18.5 gm.
540	♀ " "	161-73-16-14; 20.0 gm.
541	♀ " "	154-72-17-14; 22.0 gm.
542	♂ Peromyscus m. rubidus	187-100-21-18; 21.5 gm.
543	♀ Eutamias townsendii	262-115-36-21; 87 gm.
544	♂ " "	260-118-35-21; 83.5 gm
545	♀ Citellus beecheyi	445-195-59-28; 509 gm
546	♀ Eutamias townsendii	269-115-36-21; 93 gm
547	♂ Clethrionomys	broken backbone - 45-17-11; 26.5 gm.





Chattin, J.  
1940

## Catalogue

18 1/2 mi. NW Portland 1300 ft. Washington Co. Oregon

548 ♀ *Haplodontia* 278-13-45-21; 607 gm.

July 26

549 ♂ *Zapus* 220-127-32-15; 19 gm.

550 ♂ " 210-127-30-14; 15.7 gm.

551 ♂ " 213-128-30-15; 18 gm.

552 ♀ *Neurotrichus* 101-38-15- -; 8.5 gm.

553 ♂ " 97-34-14- -; 8.0 gm.

554 ♂ " 104-35-14- -; 7.6 gm.

555 ♂ *Microtus* 107-29-15-9; 13.0 gm.

556 *Gerrhonotus*

557 *Thamnophis*

558 "

559 *Lasionycteris noctivagans* 92-42-6-12-tr6; 6.5 gm

July 27

560 *Triturus*

561 ♂ *Sorex* 170-67-20-9; 21 gm

<sup>skull only</sup> 562 ♀ *Zapus* 228-135-30- -; 19 gm.

563 ♂ *Zapus* 217-127-31-15; 17 gm.

564 ♀ *Microtus* 185-60-23-15; 66 gm.

565 ♂ *Myotis* -75-34-4-12-tr6; 4.0 gm

July 28

566 ♂ *Sorex* 94-45-14-8; 4.4 gm.

567 ♂ " 120-52-14-9; 8.6 gm.

568 ♀ *Mus musculus* 177-85-17-14; 28 gm.

569 ♀ " " 162-75-18-14; 22.2 gm.

570 *Thamnophis*



Chattin J.  
1940

## Catalogue

3 1/2 mi. E and 5 mi. N Yacolt, 500 ft., Clark Co., Washington

July 29

571	♀	Sorex	110-52-13-7; —
572	♀	Peromyscus m. rubidus	185-92-26-17; —
573	♂	Eutamias townsendii	251-110-35-22; —
574	♀	" "	249-115-34-21; —
575		Thamnophis	
576		Rana	

July 30

577	♂	Peromyscus m. rubidus	196-102-22-18; 22 gm
578	♂	" " "	206-107-22-19; 24.5 gm
579	♂	" " "	200-108-23-19; 21.5 gm
580	♀	" " "	204-103-21-19; 22 gm.
581	♀	Phenacomys	115-28-15-9; 16.1 gm.
582	♂	Myotis	90-41-6-19-tr 10; 6 gm

July 31

583	♀	Phenacomys	120-30-16-10; 16.5 gm.
584	♀	Microtus	156-54-24-13; 25.0 gm.
585	♀	" (?)	126-35-15-9; 24.5 gm.
586	♀	Zapus	230-138-32-15; 17.0 gm.
587	♀	Peromyscus	202-105-22-18; 22.5 gm.
588	♀	"	202-107-22-18; 22.2 gm.

589 Gerrhonotus

590 ♀ Myotis 91-43-6-13-tr 6; 7 gm.  
1 1/2 mi W Yacolt, 800 ft., Clark Co., Washington

August 1

591	♀	Sorex	99-39-12-7; 3.5 gm.
592	♂	Microtus	170-51-23-16; 39 gm.
593	♀	Zapus	214-123-31-15; 26.5 gm





Chattin, J.  
1940

Catalogue

1 1/2 mi. W Yakalt, 800 ft., Clark Co., Washington

August 1

594	♂	<i>Aplodontia</i>	365 - 40 - 58 - 30; 1477 gm.
595	♂	<i>Microtus</i>	176 - 53 - 25 - 15; 38.5 gm.

August 2

596	♂	<i>Zapus</i>	229 - 135 - 32 - 16; 25 gm.
597	♀	"	207 - 123 - 29 - 16; 18.5 gm.
598	♂	"	217 - 129 - 31 - 15; 17.8 gm.
599	♀	<i>Peromyscus</i>	180 - 88 - 20 - 17; 23.5 gm.
600		<i>Gerrhonotus</i>	

1 1/4 mi. ENE Amboy, 350 ft., Clark Co., Washington

August 3

601	♀	<i>Sorex vagrans</i>	97 - 40 - 11 - 7; 3.7 gm.
602	♀	<i>Sorex bendirii</i>	163 - 74 - 21 - 10; 14.5 gm.
603	♀	" "	153 - 69 - 19 - 10; 14.1 gm.
604	♂	" "	164 - 75 - 20 - 10; 18.2 gm.
605	♂	<i>Zapus</i>	230 - 136 - 33 - 17; 33 gm.
606	♀	"	235 - 140 - 31 - 15; 26 gm.
607	♂	"	222 - 142 - 32 - 15; 17.3 gm.
608	♂	"	223 - 140 - 34 - 16; 18 gm.
609	♂	<i>Neurotrichus</i>	107 - 36 - 14 - -; 10.1 gm.
610	♀	<i>Microtus</i>	216 - 69 - 25 - 15; 114 gm.
611	♂	"	207 - 62 - 26 - 17; 85.5 gm.

August 4

612		<i>Sorex vagrans</i>	98 - 39 - 11 - 6; 3.6 gm.
613		<i>Sorex bendirii</i>	151 - 67 - 20 - 10; 15.8 gm.
614	♂	<i>Zapus</i>	229 - 143 - 34 - 15; 18.5 gm.
615	♂	"	222 - 134 - 33 - 15; 25.3 gm.
616	♂	"	237 - 145 - 34 - 15; 27.0 gm.





Chatting  
1940

## Catalogue

1 1/4 mi. ENE Amboy, 350 ft., Clark Co., Washington

- 617 ♀ *Microtus* 202-60-23-15; 77 gm.  
618 ♂ " 209-66-25-16; 86 gm.  
619 *Thomomys*

3 1/2 mi. E and 5 mi. N Yacolt, 500 ft., Clark Co., Wash

August 3

- 620 ♂ *Myotis* 90-45-7-19-tr9; 7 gm.  
621 ♂ " 82-40-6-19-tr10; 5 gm

3 1/4 E <sup>mi.</sup> and 1 1/2 mi. N <sup>Amboy,</sup> 350 ft., Clark Co., Washington

August 4

- 622 ♀ *Sorex trowbridgii* 115-52-13-7; 5.5 gm.  
623 ♂ *Zapus* 221-134-30-15; 23.5 gm.

3 mi. NE Puntum Mtn., 700 ft., Clark Co., Wash.

August 4

- 624 ♀ *Ochotona* 187-8-33-20; 179 gm.

August 5

- 625 *Ochotona* 194-9-34-22; 177 gm.  
626 ♀ *Neotoma* 277-116-40-26; 110 gm.  
627 ♂ *Sciurus hudsonicus* 330-130-51-25; 202 gm.

August 6

- 628 ♂ *Ochotona* 205-10-32-22; 177.1 gm.  
629 ♂ " 197-10-32-22; 177.4 gm.  
630 ♂ *Neotoma* 377-170-44-29; 241.3 gm.

~~3 1/2~~ 3 1/2 mi. E and 5 mi N Yacolt, 500 ft., Clark Co., Wash.

- 631 ♀ *Myotis* <sup>aug. 5</sup> 75-36-4-13-tr7; 31.5 gm.

2 1/2 mi. SE Chinook, 10 ft., Pacific Co., Washington

August 7

- 632 ♂ *Lepus washingtonii* 408-30-105-68; 1119 gm.





Chattin, J.  
1940

## Catalogue

2 1/2 mi. SE Chinook Pt., Pacific Co. Washington

August 7

633 ♂ *Lepus washingtonii* 335-30-95-64; 609 gm.

August 8

Skull only

634 ♀ *Sorex obscurus* 135-58-14-7; 8.5 gm.

635 ♂ *Sorex trowbridgii* 122-63-13-7; 6.5 gm.

636 ? *Sorex vagrans* (?) 115-58-13-7; 4.6 gm.

637 ♂ " " 110-54-14-6; 4.5 gm.

638 ♂ (?) " " 121-57-14-7; 5.0 gm.

639 ♂ *Microtus* 198-64-24-17; 67 gm.

640 ♀ *Peromyscus m. rubidus* 210-112-22-19; 25.2 gm.

641 ♂ " " " 200-109-23-19; 20.5 gm.

642 *Gerrhonotus*

August 9

Skull only

643 ♀ (?) *Sciurus douglasii* ? - 120-46-22; ?

644 ♀ *Sorex obscurus* (?) 121-55-13-10; 6.5 gm.

645 ♂ *Zapus* 232-144-33-15; 18.9 gm.

646 ♀ " 225-150-34-15; 18.5 gm.

647 ♂ " 234-150-34-15; 17 gm.

648 ♀ *Microtus* 176-52-24-15; 45.5 gm.

649 ♂ *Eutamias townsendii* 240-110-35-19; 74 gm.

650 ♂ " " 244-113-36-20; 65 gm.

651 ♀ *Peromyscus m. rubidus* 196-103-22-20; 22.5 gm.

652 ♀ *Lepus washingtonii* 410-40-115-69; 1231 gm.

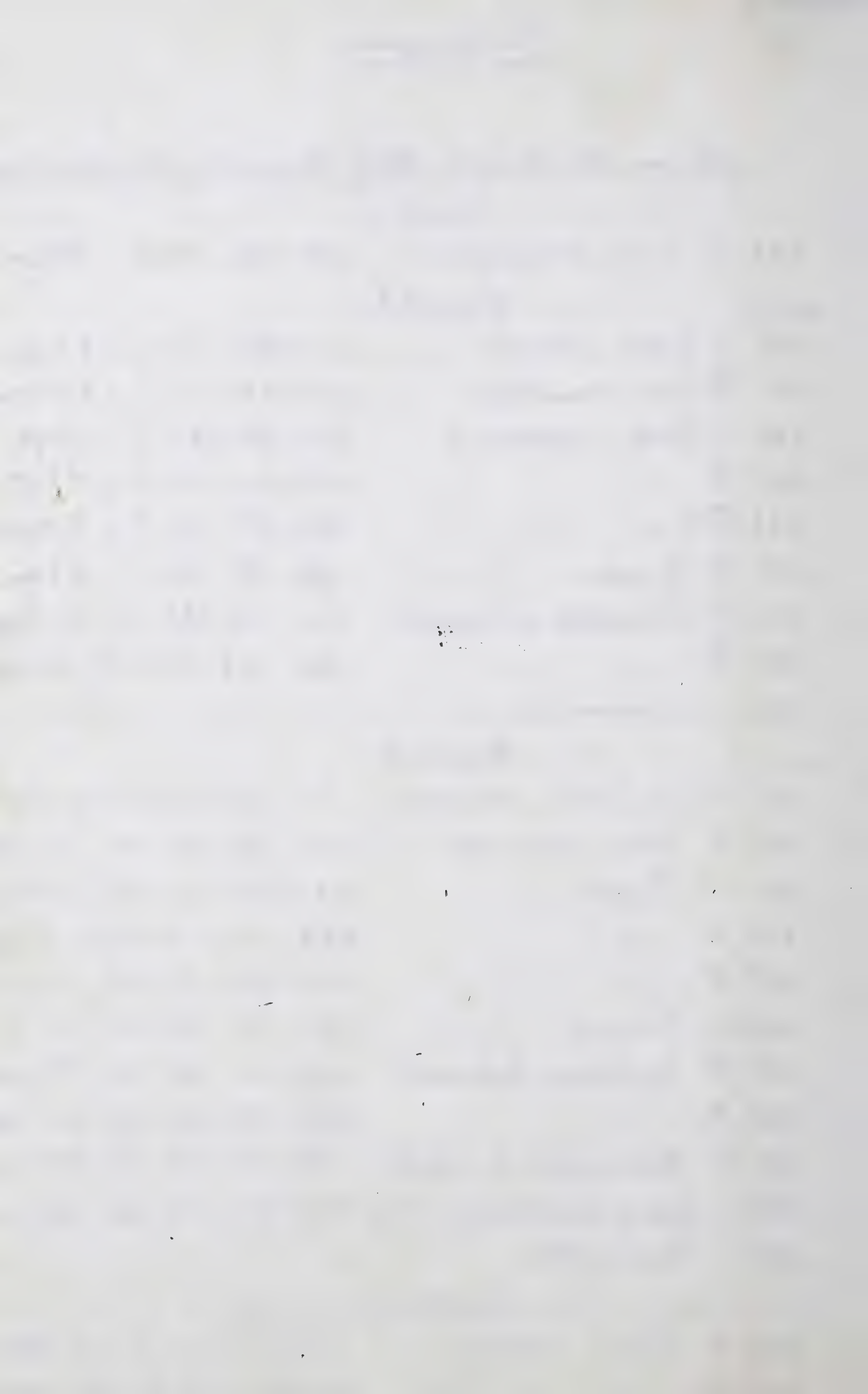
653 *Thamnophis*

August 10

654 ♂ *Sorex vagrans* 118-54-13-7; 4.5 gm.

655 ♂ ? " " 97-41-13-7; 4 gm.





Chatter, J.  
1940

Catalogue

2 1/2 mi. SE Chinook, 10 ft., Pacific Co., Wash.

August 10

656	♂	<i>Sorex vagrans</i>	100-40-13-7; 4.7 gm.
657	♂	<i>Sorex trowbridgii</i>	117-57-14-6; 6.3 gm.
658	♂	<i>Sorex bendirii</i>	170-76-20-11; 16.2 gm.
659	♂	<i>Zapus</i>	232-139-33-15; 25.5 gm.
660	♀	"	233-145-33-16; 22.7 gm.
661	♀	"	235-144-33-15; 22. gm.
662	♂	<i>Eutamias townsendii</i>	254-120-36-22; 79 gm.
663	♂	" "	241-112-36-20; 67 gm.
664	♀	" "	260-120-36-21; 83 gm.
665	♂	<i>Sciurus douglasii</i> <del><i>hudsonicus</i></del>	312-130-51-24; 193 gm.
666	♀	<i>Sorex obscurus</i> (?)	127-55-15-8; 5.3 gm.
667	♀ (no emb)	<i>Apodonta</i>	340-127-54-27; 1000 gm.
668	♀ (no emb)	<i>Microtus</i>	122-30-15-10; 18.7 gm.
669	♂ (?)	<i>Sorex vagrans</i>	114-55-14-7; 4.7 gm.
670	♂	<i>Sciurus douglasii</i>	(280)-(100)-50-24; 202 gm.
671	♀	" "	318-130-50-24; 208 gm.

August 11

Skull only

672 ♀ (no emb) *Sorex vagrans*

100-42-12-7; 4 gm.

Skull only

673 ♂ " "

104-44-13-7; 5.4 gm.

674 ♂ *Sorex trowbridgii*

116-57-13-8; 6.5 gm.

675 ♀ " "

120-58-13-7; 4.5 gm.

676 ♀ *Neurotrichus*

98-34-14- -; 8.7 gm.

677 ♂ " "

103-37-14- -; 8.1 gm.

678 ♂ *Zapus*

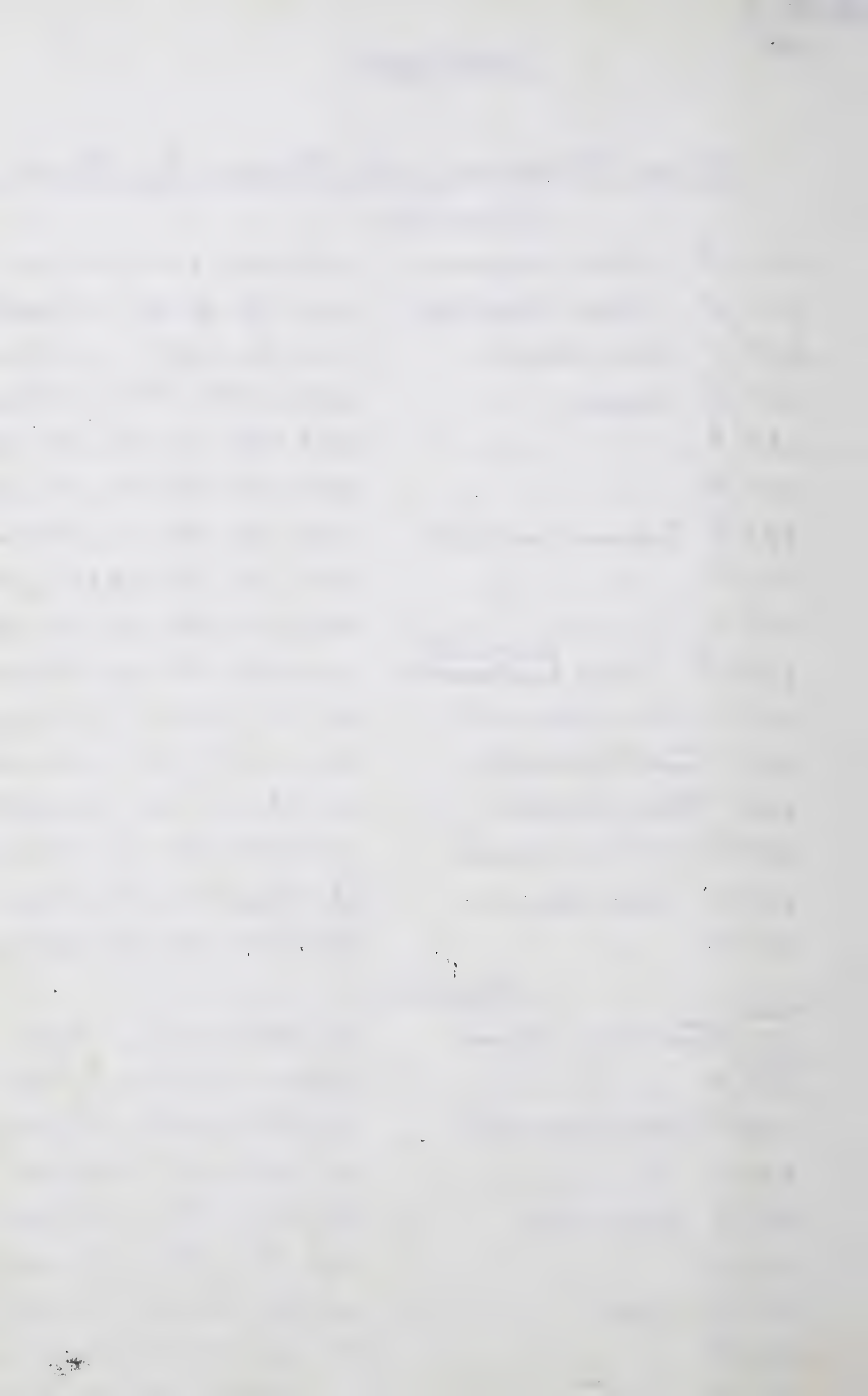
228-131-32-15; 25 gm.

679 ♂ " "

234-134-32-15; 26 gm.

680 ♂ " "

230-140-32-15; 20.5 gm.





Chatting, J.

1940

Catalogue

2 1/2 mi. SE Chinook 10 ft. Pacific Co. Wash

Aug. 11 (cont'd)

681	♀	Zapus.	237-145-32-16 ; 30 gm.
682	♀	"	213-125-31-15 ; 23.3 gm.
683	♀	"	227-135-33-15 ; 21 gm.
684	♂	Neotoma	483-218-50-31 ; 512 gm.

Aug. 12

skull only

685	♀	Sorex vagrans	106-45-12-7 ; 5.0 gm.
686	♀	Sorex obscurus(?)	121-58-14-8 ; 6.3 gm.
687	♀(?)	Sorex trowbridgii	122-59-13-7 ; 4 gm.
688	♂	Neurotrichus	101-35-14-- ; 9.0 gm.
689	♂	Microtus	114-29-16-10 ; 14.3 gm.
690	♀	Zapus.	223-129-31-15 ; 29.5 gm.
691	♂	Eutamias	265-120-38-21 ; 80 gm.
692	♂	Mustela	384-151-49-24 ; 236 gm.

4 mi. NW Chinook 10 ft. Pacific Co., Wash.

693	♂	Microtus oregoni	137-35-16-11 ; 20.5 gm.
alcoholic 694	?	Neurotrichus gibbsi	109-39-14-- ; 10 gm.
695	♀	Sorex trowbridgii	118-53-13-7 ; 4.3 gm.
696	♂	"	123-57-13-7 ; 5 gm.
697	?	Sorex obscurus(?)	122-53-14-8 ; 6.5 gm.
698	♂	Neurotrichus	102-37-14-- ; 8.5 gm.
699	♀	"	101-35-14-- ; 9.5 gm.

Aug. 13

skull only

700	♀ ?	Sorex trowbridgii	113-56-13-7 ; 5 gm.
701	♂	Neurotrichus	102-37-14-- ; 9.5 gm.
alcoholic 702	♂	"	100-38-14-- ; <del>2.8</del> 2.8 gm.
703	♀	Microtus oregoni	116-30-16-10 ; 15.2 gm.





Chatting  
1940

## Catalogue

2 1/2 mi. SE Chinook, 10 ft., Pacific Co., Wash.

- 704 ♂ *Zapus*. 239-146-33-15 ; 24.5 gm.  
705 ♀ *Eutamias* 256<sup>122</sup>-1-37-21 ; 77 gm.  
706 ♀ *Sciurus douglasii* 317-121-48-25 ; 186 gm.  
707 ♂ *Sorex bendirii* 148-68-20-11 ; 15 gm.

Aug. 14

Skeleton only

- 708 <sup>(no Rem)</sup> ♂ *Sorex townsendii* 116-58-13-7 ; 5.2 gm.  
709 ♀ " " 122-58-13-7 ; 5.1 gm.  
710 ♂ *Neurotrichus* 102-36-15- - ; 8.2 gm.  
711 ♂? " 101-34-14- - ; 7.3 gm.  
712 ♀ *Microtus oregoni* 116-30-17-10 ; 18.2 gm.  
713 ♂ *Peromyscus* 207-110-24-21 ; 24.3 gm.  
714 ♂ *Eutamias* 249-114-37-21 ; 69 gm.  
715 ♀ " 247-112-36-21 ; 70.5 gm.  
716 ♂ *Mustela* 376-139-47-24 ; 219 gm.  
717 ♂ *Sorex bendirii* (23)-(35)-20-10 ; 14 gm.  
~~718~~ ~~*Ondatra zibethica*~~

Aug. 15

- 719 ♂ *Neurotrichus* 100-37-14- - ; 8.3 gm.  
720 ♀ *Microtus townsendii* 180-56-25-15 ; 52 gm.  
721 ♀ *Microtus oregoni* 120-33-16-9 ; 16 gm.  
723 ♀ " " 117-31-16-9 ; 15 gm.  
724 ♂ *Aplodontia* 358-35-58-28 ; 1281 gm.

1 1/2 mi. N Chinook, 10 ft., Pacific Co., Wash.

- 725 ♂? *Neurotrichus* 109-40-14- - ; 9.5 gm.  
726 ♂ *Microtus townsendii* 192-65-26-16 ; 55.7 gm.

Aug. 14

- 727 ♂ *Ondatra zibethica*. 580-248-78-21 ; 86.3 gm.





Chattin, J.  
1940

## Catalogue

2 1/2 mi. SE Chinook, 10 ft., Pacific Co., Wash.

Aug. 16

skull only

728	♂	<i>Sorex trowbridgii</i>	120-54-13-7; 5.2 gm.
729	♂	<i>Sorex bendirii</i>	160-69-20-10; 13.7 gm.
730	♂	<i>Microtus oregoni</i>	121-31-16-9; 17.2 gm.
731	♀	<i>Microtus oregoni</i>	127-32-16-9; 19.9 gm.
732	♂	<i>Sciurus douglasii</i>	318-132-48-25; 203 gm.

Old Port Clatsop, 100 ft., Clatsop Co., Oregon

Aug. 17

733	♀	<i>Myotis</i>	90-41-6-13-to 6; 9 gm.
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Aug. 18

734	♀	<i>Sorex</i>	109-57-13-8; 4.2 gm.
735	♂	"	111-54-13-8; 5.4 gm.
736	♂	<i>Neurotrichus</i>	111-40-16--; 10 gm.
737	♂	<i>Aplodontia</i>	307-26-49-26; 967 gm.
738	♀	<i>Eutamias</i>	248-104-36-20; 72 gm.
739	♀ <sup>(2 emb)</sup>	<i>Microtus</i>	133-35-16-10; 22.5 gm.
740	♂	"	118-28-16-10; 16.7 gm.
741	♀	<i>Sorex trowbridgii</i>	120-56-13-7; 4.4 gm.
742	♂	"	120-55-13-7; 6 gm.
743	♂	<i>Myotis evotis</i>	80-33-6-18-to 10; 5.6 gm.
744	♂	<i>Myotis</i>	74-35-4-13-to 7; 4.2 gm.

Aug. 19

skull only

745	♂	<i>Sorex obscurus</i>	125-51-13-8; 9.7 gm.
746	♀ <sup>(no emb)</sup>	"	127-56-13-8; 6.8 gm.
747	♂	<i>Sorex trowbridgii</i>	117-53-13-7; 4.7 gm.
748	♀	"	121-55-13-7; 4.7 gm.
749	♂	<i>Sorex vagrans</i>	100-40-12-7; 4.4 gm.





Chattin, J.  
1940

Catalogue

Old Port Clatsop, 100ft., Clatsop Co., Oregon

Aug. 19 (cont'd)

750	♀?	<i>Sorex</i> <sup>vagrans?</sup> <del>obscurus</del> ?	110-52-13-8; 5.8 gm.
751	♂	<i>Sorex obscurus</i>	129-52-13-8; 9.7 gm.
752	♂	" "	126-50-13-8; 8.2 gm.
753	♀	<i>Sorex bendirii</i>	152-69-20-10; 13.3 gm.
754	♂	<i>Microtus</i>	136-36-15-12; 25.5 gm.
755	♀	<i>Lepus</i>	223-132-32-16; 21 gm.
756	♀	<i>Aplodontia</i>	300-20-47-24; 945 gm.
757	♂	"	310-20-50-25; 1109 gm.
758	♀	<i>Neurotrichus</i>	109-36-14--; 9.3 gm.
759	♂	<i>Sorex vagrans</i>	115-51-12-7; 5.6 gm.
760	♂	<i>Myotis</i>	82-37-6-13-tr 6; 7 gm.
761	♂	<i>Myotis</i>	78-32-4-13-tr 6; 4 gm.
762	♀	<i>Nycterus cinerea</i>	133-53-7-17-tr 9; 25.4 gm.

Aug 20

763	♂	<i>Sorex trowbridgii</i>	116-54-13-7; 4.7 gm.
764	♀	<i>Sorex vagrans</i>	101-43-13-7; 4.7 gm.
765	♀	" <i>obscurus</i> (?)	124-57-14-8; 6 gm.
766	♂	" "	122-55-14-8; 7 gm.
767	♀	<i>Sorex obscurus</i>	129-53-14-8; 11 gm.
768	♀	<i>Sorex bendirii</i>	151-67-18-9; 12.5 gm.
769	♀	<i>Neurotrichus</i>	104-39-15--; 8.9 gm.
770	♀	<i>Lepus</i>	228-134-32-16; 28 gm.
771	♂	<i>Neurotrichus</i>	107-39-15--; 9.6 gm.
772	♀	<i>Peromyscus</i>	196-100-22-19; 24.7 gm.
773	♂	<i>Aplodontia</i>	310-24-49-23; 889 gm.
774	♀	<i>Microtus</i>	130-37-21-11; 18 gm.



Chattin, J.  
1940

Catalogue

Old Fort Clatsop, 100 ft., Clatsop Co., Oregon - Aug. 20

775	♀ <i>Sorex trowbridgii</i>	119 - 56 - 13 - 7 ; 5 gm.
776	♀ <i>Sorex obscurus</i>	125 - 50 - 14 - 8 ; 10.3 gm.
777	♂ <i>Myotis</i>	82 - 36 - 6 - 14 - tr 6 ; 6.4 gm.
778	♀ <i>Myotis</i>	76 - 34 - 6 - 13 - tr 7 ; 5.6 gm.
779	♀ <i>Myotis</i>	88 - 39 - 7 - 11 - tr 6 ; 6.5 gm.

Aug 21

780	♂(?) <i>Sorex trowbridgii</i>	116 - 59 - 13 - 7 ; 4.6 gm.
781	♀ <i>Sorex obscurus</i>	117 - 54 - 14 - 8 ; 6.1 gm.
782	♂ " "	116 - 50 - 14 - 8 ; 9.5 gm.
783	♂? <i>Neurotrichus</i>	106 - 38 - 15 - - ; 9.7 gm.
784	♂ <i>Eutamias</i>	265 - 115 - 38 - 22 ; 80.5 gm.
785	<i>Triturus</i>	
786	"	
787	"	
788	"	
789	"	
790	"	
791	"	
792	"	
793	"	
794	♀ <i>Myotis</i>	94 - 45 - 6 - 13 - tr 8 ; 8.4 gm.
795	<i>Scapanus</i>	185 - 39 - 25 - - ; 86.5 gm.

Aug 22

796	♂ <i>Sorex trowbridgii</i>	130 - 59 - 14 - 7 ; 6.6 gm.
797	♀ " "	120 - 56 - 13 - 7 ; 5.4 gm.
798	♂ <i>Neurotrichus gibbsi</i>	99 - 38 - 14 - - ; 8.6 gm.
799	♀ " "	101 - 35 - 15 - - ; 9.6 gm.





Chattin J.  
1940

Catalogue

Old Fort Clatsop, 100 ft., Clatsop Co., Oregon

Aug 22 (contd)

- 800 ♀ *Microtus oregoni* 131-35-16-11; 21 gm.  
801 ♂ *Microtus townsendii* 195-60-25-15; 77.6 gm.  
802 ♀ " " 185-65-23-15; 62.5 gm.  
803 *Rana*.  
804 "

Aug 23

- 805 ♂? *Neurotrichus* 104-38-15--; 9 gm.  
806 ♂ *Microtus oregoni* 127-39-17-11; 22.5 gm.  
807 ♂ " " 132-35-17-11; 21.3 gm.  
808 ♀ " " 126-35-17-11; 17 gm.  
809 ♀ *Zapus* 219-127-32-15; 22 gm.  
810 ♂ *Microtus townsendii* 210-66-25-17; 74 gm.  
811 ♂ *Eutamias townsendii* 255-111-38-22; 75 gm.  
812 *Rana*  
813 ♀ *Peromyscus* 205-101-21-21; 27.5 gm.  
814 ♂? *Sorex bendirii* 165-71-20-10; 15.7 gm.

Aug 24

- 815 ♂ *Sorex trowbridgii* 109-54-13-7; 5.9 gm.  
816 ♀ " " 114-56-13-7; 5 gm.  
817 ♂ *Sorex vagrans* 112-52-13-7; 5.6 gm.  
818 ♀ " " 97-45-13-7; 5 gm.  
819 ♂ *Sorex obscurus* 120-54-14-8; 9 gm.  
820 ♀ *Neurotrichus* 102-36-15-; 9.1 gm.  
821 ♂ " " 101-35-15-; 8.7 gm.  
822 *Triturus* (larva).  
823 *Triturus similans*





Chattin, J.  
1940

Catalogue

Old Fort Clatsop, 100 ft., Clatsop Co., Oregon

Aug. 24, 1940

824 *Triturus similans*

825 " "

826 " "

827 " "

828 " "

829 " "

830 " "

831 " "

832 " "

833 " "

834 " "

835 " "

836 " "

837 " "

838 " "

839 " "

840 " "

841 " "

842 " "

843 " "

844 " "

845 " "

846 *Aneides*

847 "

848 "

849 "



Chattin, J.  
1940

Catalogue

Old Fort Clatsop, 100 ft., Clatsop Co., Oregon  
Aug 24 (cont'd)

850 *Aneides*

851 "

852 "

Aug 25

853 ♀ *Sorex bendirii* 158-67-19-10 ; 14 gm.

854 ♀ *Microtus oregoni* 130-35-15-11 ; 22 gm.

855 ♀ " " 130-35-15-11 ; 21 gm.

856 ♂ " " 115-26-15-11 ; 16 gm.

857 ♂ " " (?) 140-48-19-14 ; 20.5 gm.

858 ♂ " " 125-35-16-11 ; 17 gm.

859 ♂ " " 124-32-16-10 ; 18.5 gm.

860 ♂ " " (?) 141-45-18-13 ; 17.5 gm.

861 *Rana*

862 *Rana*

863 ♀ *Myotis volans* 87-40-4-11-ta 6 ; 9 gm.

Aug. 26

864 ♀ *Sorex trowbridgii* 114-51-13-7 ; 4.5 gm.

865 ♂ *Peromyscus* 195-105-22-18 ; 19.5 gm.

866 *Scapanus* 153-32-19- ; 51 gm.

867 ♀ *Eutamias* 235-110-35-20 ; 62 gm.

290 868 *Rana*

869 *Rana*

Aug. 27

<sup>5</sup> Skeleton only

870 ♂ *Neurotrichus gibbsi* 107-36-15- - ; 8.2 gm.

871 ♀ " " 100-36-15- - ; 8.9 gm.





Birds from Lower Columbia River.

# = last 10 days of August; fresh plumages only.

Western Gull, adult.

Petrels

Green Heron

Mountain Quail

Sooty Grouse

Ruffed Grouse

Sharp-shinned Hawk

Goshawk

Duck Hawk

Pigeon Hawk

Spotted Owl

Screech Owl

Horned Owl

Pigmy Owl

California Cuckoo

# Hairy Woodpecker

# Downy Woodpecker

# Red-breasted Sapsucker

Red-shafted Flicker

# Pacific Nighthawk

Vaux Swift

Rufous Hummingbird

# Trail Flycatcher





- # Horned Lark
- # Steller Jay
- # California Jay
- # Oregon Jay
- Crow (along beaches) may be Northwest Crow.
- Red-winged Blackbird
- # Purple Finch
- Crossbill
- # Black-throated Gray Warbler (small series) "Topotypes"
- # Yellow-throat
- # Pileolated Warbler (if not migrating)
- # Bewick Wren
- # Marsh Wren
- # Wren-tit
- # Creeper
- # Oregon Chickadee
- # Chestnut-backed Chickadee (few only)
- # Bush-tit
- # Winter Wren
- # Hermit Thrush
- # Western Bluebird
- # American Goldfinches
- # Vesper Sparrow
- # Savannah Sparrow
- # Chipping Sparrow
- # Junco



- # Song Sparrow
- # Spotted Towhee
- # Black-headed Grosbeak
- Martin
- Cliff Swallow
- Rough-winged Swallow
- # Warbling Vireo
- # Hutton Vireo
- # Lutescent Warbler (if not migrating)
- # Yellow Warbler (if not migrating)
- # Audubon Warbler

#





Oregon, Washington - July 21 - Aug. 27, 1940

Itinerary





Chattin J.  
1940

## Itinerary

July 21

18 1/2 mi. NW Portland, 1300 ft., Washington Co. Oregon

Left Berkeley Calif. at 6:00 am. July 20 with Ward C. Russell in '39 Dodge truck and drove to near Drain, Oregon where we spent the night. In a.m. (July 21) we drove on into Portland, arriving around 11 a.m. Took highway U.S. 30 out of Portland to ~~the~~ and turned left on "Rocky point" road 6 mi. E of Beapoose. Arrived at present locality in early afternoon and set up camp about 1/2 mi. E of the Sudley ranch. During the afternoon I set out 100 mouse traps spaced 4-10+ yds. apart. Trap line was set along edge of cleared land and then thru center of cleared land down to creek. About 20 traps were set along the creek and then the line cut back into cleared land again. The surrounding country has in general been heavily logged off and few small stands of Douglas fir and cedar are left. Almost all of the cleared or logged land has been burned over and fairly thick brush is growing among stumps and fallen logs. Brush covering these clearings is made up of stands of young alder and vine maple. Other





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1940

## Itinerary

July 21  
(cont'd)

18½ mi. NW Portland 1300 ft., Washington Co., Oregon  
shrubs and bushes etc. composing a fair proportion of the vegetation include: - Oregon grape. - Canadian thistle, - Blackrasberry - Blackberry - Thimbleberry - Clarkia - White Everlasting - Gooseberry and Bracken. Eutamias townsendii were fairly numerous thruout the entire cleared area. After setting out trap line. returned to camp and after supper I shot 1 Lasioceryx flying in open clearing above creek at height of about 20 ft.. Also shot a smaller bat (possibly a Myotis but was unable to find it in thick underbrush.

July 22 a.m. - During the night the 100 traps yielded 3 ♀ and 9 ♂ Peromyscus m. rubidus, 1 ♂ and 1 ♀ Mus musculus, 1 Microtus sp? and 1 Eutamias. 1 ♀ Sorex was brought into camp, having been caught and brought home by house cat. 1 Eutamias, 4 Peromyscus 2 Mus, 1 Lasioceryx 1 Sorex (skull only) and 1 Microtus were saved as skins. Inspection of traps at noon gave 2 more E. townsendii. - Also 1 winter wren, 1 Bewick wren (prep. W.C.P.) and a young Spotted Towhee. 15-20 traps were sprung, some moved 2-3 ft. - probably the mouse traps are too small to hold the chipmunks. 1 Thamnophis was caught





Chatting  
1940

## Itinerary

18 1/2 mi. NW Portland, 1300 ft., Washington Co. Oregon

July 22  
(Cont'd)

near the edge of the creek also at about noon.  
p.m. - Set out 40 traps along creek bottom in stand of virgin timber; Douglas fir, Red Cedar, and Hemlock. Traps were baited with peanut butter and placed 3-8 yds. apart. Heavy cover of fallen needles and moss covers the creek bottom which is in deep shade thruout the day. - After supper I shot a Myotis flying above creek at height of about 20 ft. at 8:15 p.m.. -

July 23

a.m. - Inspection of traps left in old burned over area yielded 4 Peromyscus (2 ♂ - 2 ♀) and 1 young ♂ Microtus sp.? (same as I caught yesterday). - 50 traps set along creek bottom in tall timber yielded nothing. - Only 3 were sprung but contained no mice. - Numerous runs and burrows thru the needles are present but may be unoccupied at present. 2 Sciurus douglasii were shot before breakfast at heights of 15-25 ft. in young stands of Douglas fir.  
p.m. - Picked up the 100 traps set in burned logged area catching 2 Eutamias townsendii (1 ♂ 1 ♀) and 1 ♀ Citellus beecheyi. 75 of the traps were reset along the creek bottom in logged area. Traps were baited with raisins and rolled oats and were set





Chatting.  
1940

## Catalogue

18 1/2 mi. NW Portland 1300 ft. Washington Co., Oregon

July 23  
(Cont'd)

at distances of 3-10 yds. apart. Traps were set in small grassy spaces and beneath bushes and fallen logs and driftwood. - Vegetation present along the trap line was made up of Bracken -, tangles of blackberry, black raspberry, <sup>and</sup> thimbleberry bushes. Young alders 8-18 ft. high, Carex sp? and some grasses are also present. White Everlasting, Clarkia and Canadian thistles add to the tangle of vegetation. -

9 #91 jump traps were set in runs or burrow mouths of Aplodontia beneath fallen and rotten logs on NE facing slope of hill in fairly heavy stand of Douglas fir. 6 Traps were also set by W.C.R. and when I returned 2 hrs. later at 3 p.m. 1 ♂ Aplodontia was caught and 1 other trap was sprung. This contained some fur and possibly was sprung by belly of the animal and was not held by trap. Traps are large enough since the ♂ caught was held securely. 1 mole trap was set near camp in mole run which appeared fairly fresh (possibly not more than 3-4 days old.). - Between 8:05 p.m. and 8:30 p.m. shot 1 Lasionycteris and 1 Myotis. Bats were observed flying only between





Chatting  
1940

## Itinerary

18 1/2 mi. NW Portland, 1300 ft., Washington Co., Oregon

July 23  
(cont'd)

these times.

July 24

a.m. - Inspection of traps showed 4 or 5 out of 40 sprung in line in virgin timber along creek, but no mice were caught. Runways and holes are numerous in the thick cover of litter on the ground but mice apparently are few in number. 1 young ♂ Microtus was caught along creek in line of 75 traps set in logged area. 2 Eutamias townsendii were shot in open patch of burned over timber. 1 Sciurus douglasii was shot from its perch 20 ft. up a standing rotten log.

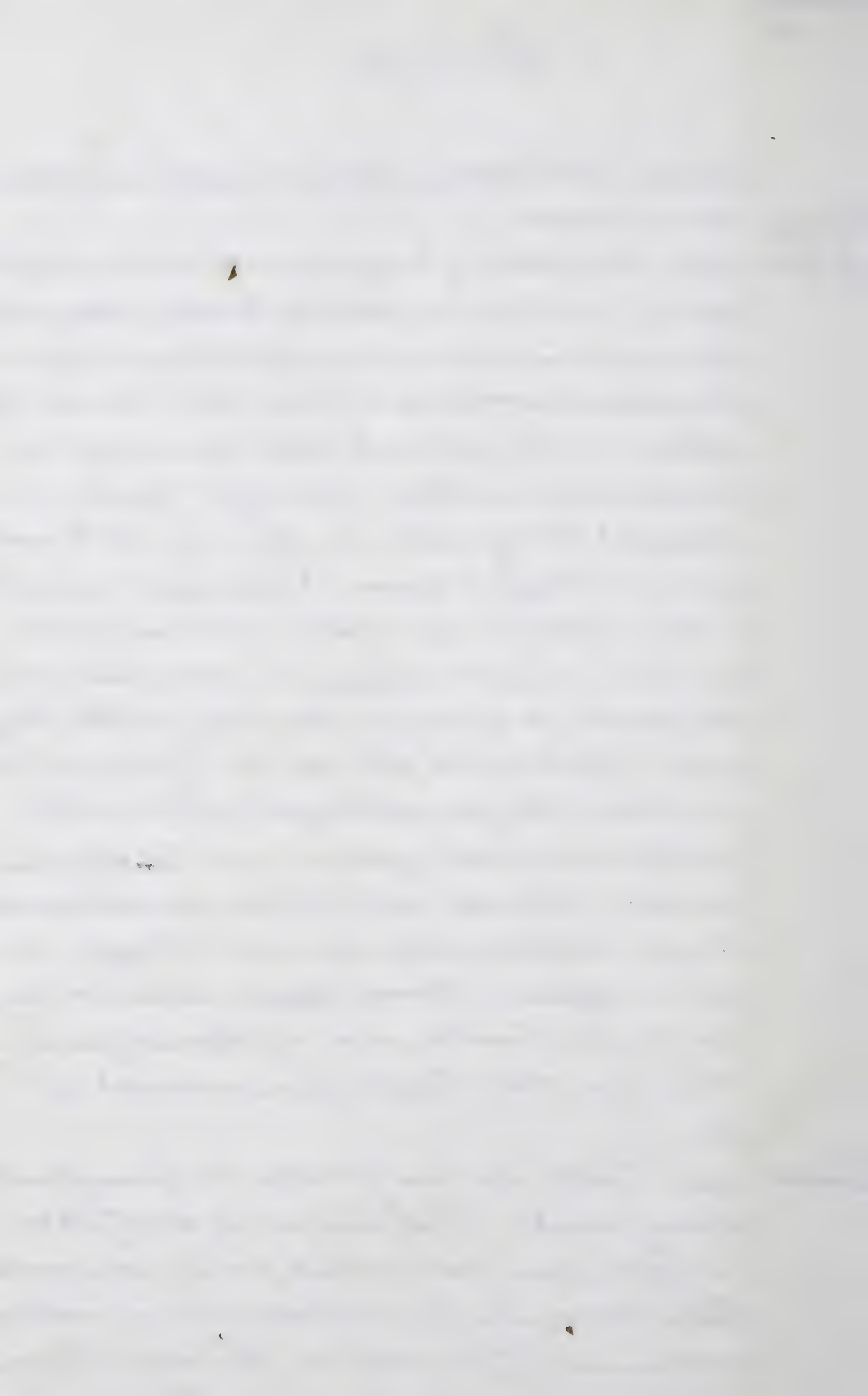
p.m. - Checked steel sets set for Haplodontia and set 10 more Schyler rat traps baited with potato and dried apricot in Haplodontia runs. Also set out 40 more small mouse traps baited with raisins. Traps were set in grass - Clover, Carex and "wild hay" (red top) at lower end of cleared field.

At 8:25 p.m. shot ♀ Myotis flying at height of 18-20 ft..

July 25

a.m. Picked up line of traps in heavy timber along creek. - Trap line along creek thru logged area contained only 1 Song sparrow. The trap line of 40 traps set in meadow contained 4 Mus musculus, 1 ♀ Sorex, 1 ♂ Peromyscus m. rubidus, and 1 Microtus. Also shot ♀.





Chattin, J.  
1940

## Itinerary

18 1/2 mi. NW Portland, 1300 ft., Washington Co., Oregon

July 25  
(cont'd)

Citellus beecheyi and 3 Eutamias townsendii in  
logged off clearing

In p.m. - set out 40 mouse traps baited  
with raisins. Traps were set 3-6 yds apart  
in creek bed which at present is dry but  
former moisture has permitted heavy  
growth of bracken and short grass which  
has been somewhat grazed by stock. Steel  
traps were inspected and 1 ♀ Hplodontia was  
caught and 1 ♂ Clethrionomys was caught in  
Hplodontia burrow in Schuyler rat trap baited  
with apple. Light rain fell during p.m.  
and all thru night.

July 26 Rain continued to fall thruout most  
of day. Traps set yesterday were looked  
at and contained 3 Neurotrichus, 3 Zapus,  
1 Microtus and 1 Mus musculus. Hplodontia  
sets contained nothing. -

In p.m. - weather cleared slightly and several  
(about 15) traps were moved to better  
looking spots in the line. - At 8:25 p.m. a  
♀ Lasionycteris was shot flying over open clear-  
ing near edge of creek.

July 27. Traps were inspected in a.m. contained  
1 Sorex bendirii, 2 Zapus caught along creek thru  
logged area. In line in dry creek and  
meadow 1 Microtus was caught. The traps





Chattin J.  
1940

## Itinerary

<sup>1300ft.</sup>  
18 1/2 mi. NW Portland, Washington Co., Oregon

July 27 (cont'd) set along creek thru burned and logged area were taken up thus leaving about 80 traps out in meadow and dry creek bed. At 8:20 p.m.

♂ Myotis was shot flying in clearing near creek.

July 28 - a.m. 80 traps left out overnight and during yesterday were picked up, yielding 2 ♂ Sorex and 2 ♀ Mus musculus. Steel sets for Hesperomys were also picked up and camp was moved to

3 1/2 mi. E and 5 mi. N Yacolt, 500ft., Clark Co., Washington. where we arrived at 5 p.m. - Camp was made in clearing between Canyon Creek and Tum-tum mt. on edge of "Closed area" of national forest. The west slope of the mountain has been completely logged off and is overgrown with Vine maple, broken thimble berry, blackberry and young alder. 70 traps were set out around the edge of the clearing near camp. Traps were baited with raisins and set 3-6 yds apart. Saw 1 young Peromyscus and 1 Clethrionomys while setting traps.

July 29 - a.m. Traps inspected and reset and left in same places. 1 Sorex and 3 Peromyscus were caught in traps and 2 Eutamias were shot. During most of the day a moderate rain fell beginning about 2:30 a.m. and continuing until evening. In p.m.





Chatten, J.  
1940

## Itinerary

3½ mi. E and 5 mi. N Yakalt, Clark Co., Washington

July 29  
cont'd

a line of 40 traps was set along cut bank of road. Holes and trails were fairly numerous. The trap line was set after rain had stopped falling. Road along which it was set runs thru a large stand of virgin timber of Douglas fir 3-6 ft. in diameter at base. Undercover is composed almost exclusively of vine maple with carpet of moss and Oxalis 2-4 in. high covering the ground.

July 30

a.m. Trap line inspected and 4 Peromyscus and 1 Phenacomys were caught. Trap line near camp contained nothing. Both lines were left out. Weather now appears to be clearing and the sun shines for short intervals thru clouds which have raised considerably. At 8:18 p.m. shot ♂ Myotis flying 40-50 ft. high around edges of tops of Douglas fir

July 31

a.m. Rain fell during part of last night. Trap lines both taken up. They contained 2 Peromyscus, 1 Zapus, 1 Phenacomys (caught in trap set under a board). 1 Microtus and another microtine were also caught. At 8:10 p.m. a Myotis was shot flying about in tops of Douglas fir 40-50 ft. above ground. 28 small mouse traps baited





Chatter J.  
1940

## Itinerary

<sup>500ft.</sup>  
3 1/2 mi. E and 5 mi. S Yacolt Clark Co., Washington  
with walnuts were set around edge of a  
small pond at 1 1/2 mi. W Yacolt, 800ft., Clark  
Co., Wash. - Grass and sedges bordered the  
pond and traps were set in faint runways.  
43 steel traps were set by the 4 of us (Davis,  
Russell and Sibley and I) in Aplodontia burrows.  
Signs of "beaver" appeared plentiful and by  
the time the last trap was set 3 animals  
had been caught in traps set only 30 min,  
or so earlier.

Aug. 1

a.m. Aplodontia traps contained 8 more  
animals bringing total to 11. Mouse  
traps contained 1 Sorex vagrans (?), 1 Zapus,  
1 Microtus and 2 juvenile Peromyscus. p.m.  
Steel sets were inspected and 2 more Aplodontia  
taken. 1 Microtus was caught in mouse  
traps. 25 or 30 more small traps were set  
out farther down the creek in grass, sedges,  
and young alder. At 8:10 p.m. a bat was  
shot, but could not be found in brush.

Aug 2.

a.m. - Steel traps were removed from Aplodontia  
burrows and 4 animals were caught.  
Mouse traps were also removed and 3  
Zapus and 1 Peromyscus were caught. In p.m.  
50 traps were set in thick grass, sedges,  
and willows along soggy ground and near  
edges of spring and creek in natural





Chatting.  
1940

## Itinerary

1 1/4 mi. ENE Ambay, 350 ft., Clark Co. Washington  
Aug 2 meadow. Trails and tracks and feces were  
(cont'd) apparent in wet mud along creek. 1  
Microtus was seen while traps were being  
set.

Aug. 3. - a.m. Picked up trap line which contained  
1 Sorex vagrans - 3 Sorex bendirii (caught  
near edge of creek) - 4 Zapus (caught both  
in open sets and at places where burrows  
had been excavated). - 1 Neurotrichus  
(caught in trap set in runway which  
I uncovered beneath moss) and 2 Microtus  
(caught at edge of water, one actually  
in the water). - This catch is the  
best of the trip to date, the cause  
probably being due to existence of very  
heavy cover and permanent source of  
water which "boils" up thru white  
sand and forms large boggy area.  
p.m. - About 40 traps were replaced  
in this same area, the line being  
started in vicinity of spring and  
going downstream. Traps were baited  
with walnuts and set 2-5 yds.  
apart in favorable looking spots along  
edge of water and in heavy grass.  
About 20 more traps were set along  
a flowing stream thru a meadow at:





Chatting  
1940

## Itinerary

Aug 3  
cont'd.

3 1/4 mi. E and 1 1/2 mi. N Ambog, 350 ft., Clark Co., Washington  
containing sedges and clover and  
young alder and vine maple with  
ground cover of camas. These traps  
were also baited with walnut  
meats and set about 5 yds. apart.

Some burrows were evident  
and traps were set near them but  
the area does not look as favorable  
as the one where the spring and boggy  
area is. After dark 2 Myotis were  
shot at 3 1/2 mi. E and 5 mi. N Yacolt, 500 ft., Clark Co., Wash.

Aug. 4-

a.m. 40 traps set at 1 1/4 mi. ENE Ambog,  
350 ft., - were taken up. Catch in this  
trap line consisted of 2 Sorex vagrans,  
(caught near water's edge) - 1 Sorex bendirii  
(caught at edge of spring) - 3 Lepus (caught  
within 3 yds of water) - 4 Microtus townsendii?  
(2 young and 2 adults - caught at edge of water)  
20 traps set at 3 1/4 mi. E and 1 1/2 mi. N Ambog,  
350 ft., - were also taken up. Catch in  
this line consisted of 1 Sorex trowbridgii,  
(caught in "pure stand" of camas on wet  
boggy ground) - 2 juvenile Peromyscus  
and 1 Lepus. (caught in grass with some  
camas and fallen logs overgrown with  
moss nearby - 3 yds from running  
water. -





Chattin, J.  
1940

## Itinerary

3 mi. NE Tumtum Mtn. 700 ft., Clark Co. Washington

Aug. 4  
(cont'd)

p.m. - With Russell, hiked to above locality with intentions of setting rat traps for Neotoma. To reach this locality we crossed Canyon Creek below camp and drove up road taking right hand turn and going to ranch of V. Graves. From the ranch a trail leads down around the lower end of a large cliff with rock slide to cabin directly above the creek. Conies were heard calling so we stopped to hunt. 4 Rat traps were set in mossy trails near edge of slide.

Aug 5

a.m. Returned to rock slide. 1 juvenile Neotoma was caught in rat trap. 1 Ochotona and 1 Sciurus hudsonicus were shot at this time. 10 rat traps were set - 5 in an abandoned cabin near Canyon Creek and 5 in trails in moss in rock slide. Traps were baited with dried apricots.

Aug 6. a.m. Picked up rat traps which contained 1 adult Neotoma. 2 more Sciurus were shot in the rock slide. 1 Myotis was shot last night at 8:05 p.m. - at 3 1/2 mi. E and 5 mi. N Yacolt, 500 ft. -  
- See W.C. Russell's notebook for map of localities in Clark Co., Washington.  
In p.m. we moved camp to Chinook and camped at ~~re~~ -





Chatting  
1940

## Itinerary

2 1/2 mi. S E Chinook 10 ft. Pacific Co. Washington.

- where we arrived at 6 p.m. - A slight rain was falling and no traps were set out. Camp was made near beach in an abandoned house owned by a Mr. Mc Gowan.

Aug. 7. - a.m. - put up specimens carried over from yesterday.

p.m. - Set out 45-50 mouse traps and 10 rat traps baited with walnuts and set 10-20 ft. apart. Line was run through patches of Carex and Xerophyllum in bottomland on soil which was moist but not soggy. Traps were set in large runs and along edges of fallen logs. Rat traps were placed in the line at points where Sciurus workings were observed. 2 young Lepus washingtonii were shot along an old logging trail almost obscured by 2<sup>nd</sup> growth of brush and young alder and bracken and sword ferns. A weasel was seen running thru heavy grass and then into cover of blackberry thicket. 5 Shaylor rat traps were set at edge of thicket and were baited with parts of Neotoma body.

Aug. 8. a.m. - Trap line was inspected and traps were reset. Catch consisted of 6 Peromyscus  
1 Sorex obscurus 3 Sorex vagrans and 2 Sorex





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1940

## Itinerary

2 1/2 mi. SE Chinook, 10 ft. Pacific Co. Washington.

Aug. 8  
(Contd)

Trowbridgii, 2 juvenile Lepus, 1 Microtus.  
p.m. - 40 more mouse traps were set in excavated burrows beneath large bunches of Carex and grass.

Aug. 9.

a.m. Trap line inspected and traps reset. 1 Sciurus douglasii and 1 Lepus washingtonii were shot. The squirrel was shot as it was cutting down cones at top of 30 ft. Sitka spruce. Rabbit was shot at edge of blackberry thicket.

Catch in mouse traps consisted of 1 Sorex obscurus?, 4 Lepus, 1 Microtus, 2 Eutamias townsendii, and 7 Peromyscus.

p.m. - 35 more mouse traps were set out near edge of small trickle of water, (possibly drainage from previous rain). - 4 steel sets were made and 3 were baited with part of Rabbit body. 1 was set in Apodontia burrow.

Aug 10.

a.m. Traps were inspected and reset. Steel traps contained 1 Eutamias, 1 Lepus and 1 Apodontia. - Mouse traps contained 10 Peromyscus, 4 Sorex vagrans, 1 Sorex trowbridgii, 1 Sorex obscurus, 1 Sorex bendirii (caught in an excavated run beneath ground at least 50-60 yds from running water, but beneath sedges), 6 Lepus, 2 Eutamias, 1 Microtus oregonus?, - 1 Sciurus douglasii was shot





Chattin, J.  
1940

## Itinerary

Aug 10  
(cont'd)

2 1/2 mi. SE Chinook, 10 ft., Pacific Co., Wash  
in large - broad - leaved maple.

p.m. Traps were reset - 1 Sorex vagrans was caught. - 2 Sciurus douglasii ~~hudsonicus~~ were shot at base of large Sitka spruce. (1♂ & 1♀). - ♂ was shot 1<sup>st</sup> and ♀ remained at base of tree and was shot a few seconds later.

p.m. 2 more steel sets were made for Hypodontia

Aug. 11

a.m. Trap line was inspected and traps reset. Catch in mouse traps consisted of 2 Sorex vagrans, 2 Sorex trowbridgii, 2 Neurotrichus (1 caught in drying grass at edge of blackberry thicket, the other in heavy stand of Xerophyllum on moist humus soil). 6 Zapus were caught in traps set in excavated burrows in heavy stand of Carex. - 1 Neotoma cinerea was caught in #2 steel trap. Rat was caught by head at eye level. - At 4 mi. NW Chinook, 10 ft., in

p.m. - 25 small mouse traps were set in burrows in wet mucky soil for Microtus. Land is flat with small tidal sloughs cutting back from the river. Vegetation is Xerophyllum and Bermuda(?) grass. Surface runs were scarce, and no very fresh sign was noted. 1 #9 jump trap was set in fresh muskrat run.

Aug. 12

a.m. Inspected trap line and reset traps. Catch in mouse traps consisted of 1 juvenile Peromyscus, 1 Sorex vagrans, 1 Sorex obscurus, 1 Sorex





Chattin, J.  
1940

## Itinerary

Aug 12  
(cont'd)

2 1/2 mi. SE Chinook, 10 ft., Pacific Co., Wash.

trowbridgii, 1 Neurotrichus (caught in heavy stand of Xerophyllum above surface of ground), 1 Microtus oregoni, 1 Lepus, 1 Eutamias, - 1 Mustela was caught in steel set. (In last 3 days this same trap has caught 1 Eutamias townsendii, 1 Lepus washingtonii, 1 Neotoma cinerea). Mouse traps set at 4 mi. NW Chinook, 10 ft., were taken up. They contained 1 young Lepus, 1 Microtus oregoni, 1 young Microtus townsendii, and 2 Sorex vagrans. Steel set in Mustkrat trail contained a young striped skunk which was not saved. Rain or light drizzle fell during last night but after 9 a.m. the day was clear and warm.

p.m. - At 2 1/2 mi. SE Chinook, 10 ft., - 15 more small mouse traps were set in underground runs beneath heavy stand of Carex sp.?. - Traps in old trap line were inspected, rebaited, and reset. They contained 1 Sorex obscurus, 2 Sorex trowbridgii and 3 Neurotrichus (all Sorex and Neurotrichus were caught in underground runs beneath heavy cover of sedges. Steel traps were scented with scent glands of weasel. 1 more steel trap was set in Aplodontia burrow. -

Aug 13

a.m. Traps inspected and reset after





Chattin, J.  
1940

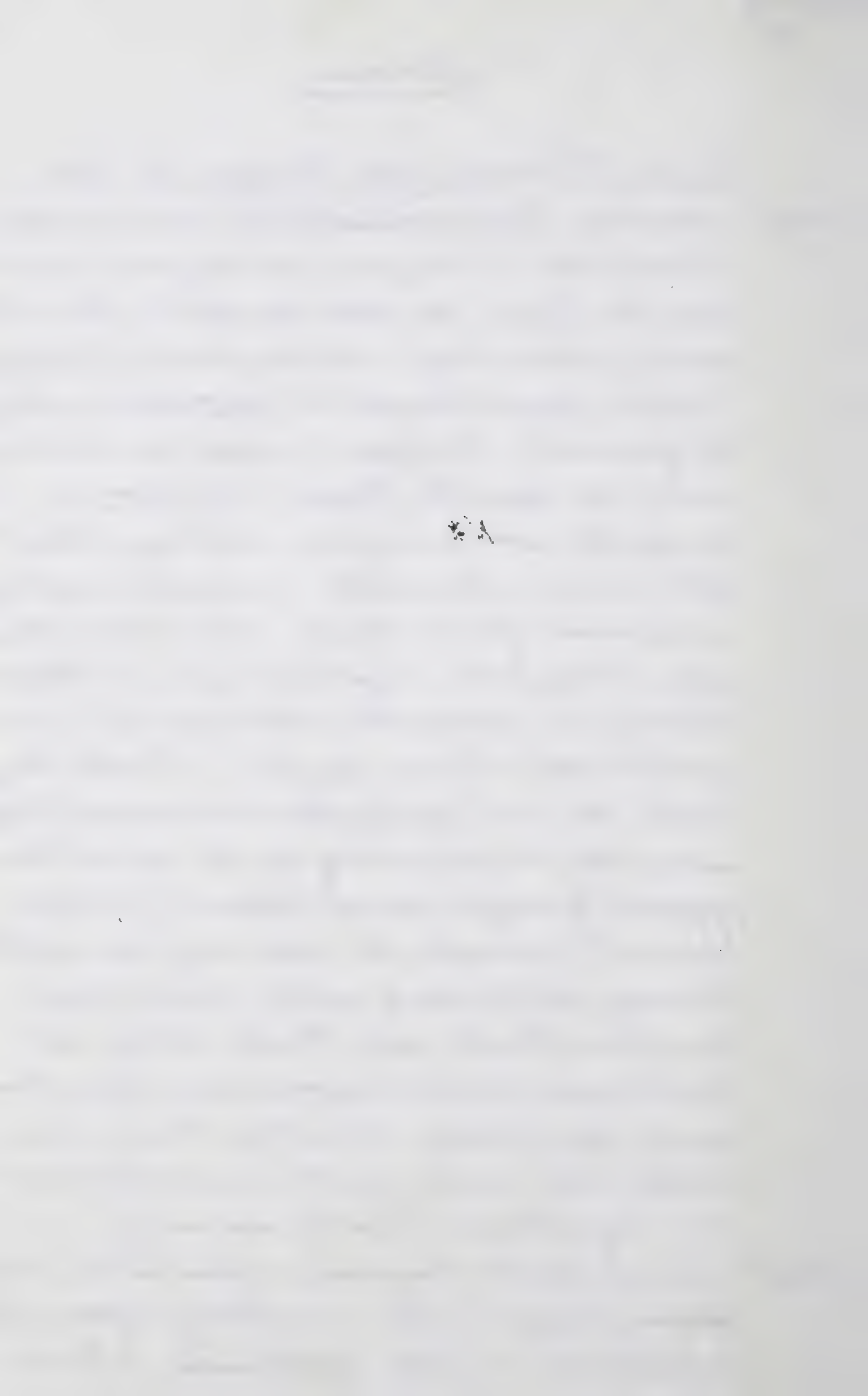
## Itinerary

2 1/2 mi. SE Chinook, 10 ft., Pacific Co., Wash.

Aug. 13. rebaiting. Catch consisted of 1 Sorex trowbridgii, 2 Neurotrichos - (1 caught in underground burrow beneath Carex, the other caught by tail along side of fallen log in heavy stand of Xerophyllum, 1 Microtus oregoni (caught in Xerophyllum on surface of ground.) - 3 Lepus. (caught in excavated burrows beneath Carex) - 1 Eutamias townsendii was caught in rat trap. Steel sets were untouched. - 1 Sciurus douglasii was shot from top of 25 ft. Sitka spruce. p.m. - Trap line inspected again at 4:00 p.m. a trap in excavated underground burrow contained a Sorex bendirii. 8 steel traps were set in Aplodontia burrows. Traps were set in and along an old road thru apparently virgin small stand of Sitka spruce. Animals are working in mellow loamy soil covered with "sword fern". Surface trails and trails along cut bank are more numerous than those seen previously. Weather to-day was clear and warm with moderate dew on vegetation in early morning.

Aug. 14 - a.m. - Inspected traps and rebaited and reset sprung traps. Catch consisted of 3 young Lepus, 3 Peromyscus, 2 Sorex trowbridgii, 2 Neurotrichos (caught beneath Carex in burrows), 2 Microtus





Chatterin, J.  
1940

## Itinerary

Aug 14  
(Cont'd)

2 1/2 mi. SE Chinook, 10 ft. Pacific Co. Wash.

Oregoni, 2 Eutamias were shot in brush beneath vine maple and Sitka spruce. 1 ♂ weasel was caught in steel trap. Trap was scented p.m. Aug. 12 and part of weasel body was hung above trap.

p.m. 40 mouse traps were set out along edge of slough on Giles ranch 1/2 mile NW Chinook or at 1 1/2 mi. N Chinook, 10 ft. Pacific Co. Wash.

Traps were set at edge of Xerophyllum and in Carex and grass in burrows beneath ground. A muskrat was caught by hand at edge of small slough.

After supper at 6:00 p.m. - trap line at base camp 2 1/2 mi. SE Chinook was inspected. - 1 Sorex bendirii was taken in trap set in burrow beneath Carex. Animal was caught by tail and was alive and active.

Aug. 15

a.m. - Traps at 1 1/2 mi. N Chinook taken up. They contained 1 Sorex vagrans, 1 Microtus townsendii, and 1 Neurotrichus. Microtus was caught at edge of water, Neurotrichus was caught in excavated burrow.

Traps at 2 1/2 mi. SE Chinook were inspected and reset. Mouse traps contained 1 Neurotrichus (caught at end of small rotted log in damp humus soil), 1 Microtus townsendii was caught in excavated burrow beneath





Chattin, J.  
1940

## Itinerary

2 1/2 mi. SE Chinook, 10 ft., Pacific Co., Wash.

Aug 15  
(cont'd) Carex, 2 Microtus oregoni (caught in Xerophyllum on surface of ground). - 1 Aplodontia was caught in steel trap. - Weather today was clear with little dew in early morning. Sky clear with some wind.

Aug 16 a.m. Picked up both mouse traps and steel traps. Mouse traps contained 1 Sorex townsendii, 1 Sorex bendirii (caught in excavated burrow beneath Carex, 4 Microtus oregoni and 2 Peromyscus. ♂ Sciurus douglasii was shot in Sitka spruce at 7:30 a.m.:-

In forenoon we moved camp and crossed the Columbia river to Astoria. From Astoria we drove out U.S. highway 101 and turned off of highway 1 mi. to camp at the site of Old Fort Clatsop, 100 ft., Clatsop Co., Oregon.

Aug 17 - a.m. Skinned specimens carried over from Aug. 16.

p.m. Set out 11 steel traps in Aplodontia burrows. Set out 30 "museum specials" in heavy stand of Xerophyllum and Carex bordered by young alders. Traps were set about 4 yds. apart and were baited with walnuts. Vegetation was very thick and mat of decaying roots is present beneath the plants. Bracken and blackberry also are subdominants in





Chattin, J.  
1940

## Itinerary

Old Fort Clatsop, 100 ft., Clatsop Co., Oregon  
the low land just above high tide level. The tide is effective in the Lewis and Clark river at this point and rises about 4-6 ft. Land back from river is timbered with Sitka spruce hemlock, and some cedar in moist spots. Alder is also present in lower land and creek bottoms. Salal and bracken form the main ground cover where such is present. At 8:10 p.m. a Myotis was shot flying 16-18 ft. above ground.

Aug. 18 a.m. - Mouse traps were inspected and reset. They contained 1 Neurotrichus and 2 Sorex townsendii. Steel traps contained 1 Aplodontia (2 more being sprung) 1 Eutamias was shot with .38.

p.m. 50 traps were set along banks of small stream and in boggy area around Lewis and Clark spring within 100 yds. of Old fort site. Soil is wet and boggy and vegetation is "bent grass" (in pastures) and Comas and Xerophyllum in boggy areas.

- Traps set in bottomland were looked at. 2 Microtus and 2 Sorex townsendii were caught. 20 more traps were put out in this same area of bottomland.

At 7:40 p.m. - 2 Myotis were shot flying 18 ft. ±





Chattin J.  
1940

## Itinerary

Old Fort Clatsop, 100 ft., Clatsop Co., Oregon  
in small clearing along a road thru  
Sitka spruce and timber.

Aug 19. a.m. - Inspect trap line and reset traps.  
Traps in riverbottom contained 1 Peromyscus  
1 Zapus, 1 Microtus, 1 Sorex bendirii, 2 Sorex obscurus  
1 Sorex vagrans and 1 Sorex townsendii.

Traps in boggy area around the spring  
contained 8 Peromyscus, 1 Zapus, 1 Microtus,  
3 Sorex obscurus, 1 Sorex vagrans and 1 Sorex  
townsendii. Steel sets contained 3 Aplodontia  
(1 juvenile).

p.m. Trap line in riverbottom land  
inspected but contained nothing.

Trap line near spring contained  
1 Neotrichus and 2 Sorex vagrans.

At 7:30 p.m. - 1 Mycteris cinerea was shot  
as it was flying down roadway  
cleared thru Sitka spruce and Alder.  
It was flying about 20 ft. above the  
ground and was flying in straight line  
and apparently was not feeding. A few  
minutes later 2 Myotis were shot at  
same place and flying at about the same  
height.

Aug 20. - a.m. Inspected traps and reset those  
sprung. Traps in river bottomland contained  
1 Sorex bendirii, 1 Sorex vagrans, and 1 Sorex





Chattin, J.  
1940

## Itinerary

Old Fort Clatsop, 100 ft., Clatsop Co., Oregon

Aug 20  
(contd.)

trowbridgii. Traps around spring contained 7 Peromyscus, 1 Zapus, 1 Sorex obscurus, 4 Sorex vagrans, and 1 Neurotrichus gibbsi. 1 Aplodontia was caught in steel trap.

p.m. Traps in riverbottom inspected. They contained 1 Microtus, 1 Neurotrichus, 1 Sorex obscurus and 2 Sorex trowbridgii.

3 Myotis were shot between 7:35 and 7:50 p.m.

Aug 21

a.m. - Inspected and reset traps. Traps in river bottomland contained 2 Sorex obscurus, 1 Sorex trowbridgii and 1 Neurotrichus gibbsi.

Traps around spring contained 2 Peromyscus, 1 Sorex trowbridgii and 2 Sorex vagrans. 1 Eutamias townsendii was caught in Aplodontia burrow. 1 juvenile Aplodontia was also caught in steel traps. 1 Scapanus was caught by hand as it was working in bent grass on surface of ground. 1 Myotis was shot at 7:40 p.m.

Aug 22

a.m. Inspected and reset traps in river bottom land. They contained 2 Neurotrichus gibbsi, 2 Microtus townsendii, 1 Microtus oregoni, 1 Sorex trowbridgii. Trap line around spring was taken up. It contained 2 Sorex vagrans, 1 Sorex trowbridgii and 2 Peromyscus. - Steel traps were also taken up.

p.m. - 40 traps were set out in underground





Chattin, J.  
1940

## Itinerary

Old Fort Clatsop, 100 ft., Clatsop Co., Oregon  
burrows and surface runs beneath Carex  
and Xerophyllum. Ground is level and moist.

Aug 23 a.m. Traps were inspected and reset. Traps  
in riverbottom contained 1 Neurotrichus  
(caught beneath Carex in same trap in which  
2 others have been caught previously), & 1  
Microtus townsendii. Traps in sedge contained  
3 Microtus oregoni, & 1 Zapus. - 1 Eutamias was  
shot from dead limb of Sitka spruce.

p.m. 20 more traps were <sup>set</sup> beneath Carex  
in underground burrows. 1 Sorex bendirii  
was caught during day in underground  
burrow beneath sedge.

Aug 24 a.m. Inspected and reset traps. Traps in river  
bottom contained 1 Sorex trowbridgii. Traps set  
beneath Carex contained 1 Sorex trowbridgii, 3 Sorex  
vagrans, 1 Zapus, 1 Sorex obscurus and 2 Neurotrichus.

p.m. Built a small seine and seined small pond  
about 100 yds West of fort site. Adult Triturus  
similans and Aneides were catalogued. Larvae  
of both kinds were preserved but uncatalogued.

Aug. 25 a.m. Inspected and reset traps. Traps in river  
bottom contained 4 Microtus oregoni. Traps set  
beneath Carex contained 3 Sorex vagrans, 1 Zapus,  
2 Peromyscus, 1 Sorex bendirii, & 3 Microtus oregoni.  
Total of 7 Microtus caught is of interest and may  
possibly be due to slight rain which fell





Chattin, J.  
1940

## Itinerary

Old Fort Clatsop, 100 ft., Clatsop Co., Oregon

Aug 25  
(contd.)

last night.

Aug. 26.

a.m. Traps were inspected and reset. Catch consisted of 1 Sorex trowbridgii, 1 Peromyscus and 1 Scapanus caught in mouse trap in Xerophyllum. 1 Eutamias was shot. 2 Rana were caught along stream bank in meadow while inspecting trap line.

p.m. Trap line in riverbottom was picked up.

Aug 27.

a.m. Trap line in meadow & Carex was picked up and 2 Neurotrichus were taken.

In p.m. broke camp to leave for Berkeley.

X

















